

# INDEX TO VOLUME 34

## SUBJECTS<sup>1</sup>

### ABNORMALITIES AND DEFORMITIES

"Basilar impression," Diagnosis of, A. Schüller, Feb., 214.  
Ears, Mastoiditis in congenitally deformed (ab.), A. T. Wanamaker, April, 514.  
Epiphyseal dysplasia, Punctate, occurring in two members of same family (ab.), D. G. Maitland, March, 387.  
Epiphyseal dysplasia punctularis (stippled epiphyses): report of case not associated with hyperthyroidism, J. A. L. McCullough and C. G. Sutherland, Feb., 131.  
Hip, Early diagnosis of congenital dislocation of (ab.), H. A. T. Fairbank, April, 520.  
Talocalcaneal articulation, Anomalous: double ankle bones, M. S. Burman and S. E. Sinberg, Feb., 239.

### ACETABULUM

Deformities of acetabulum, Adolescent: investigation into nature of protrusio acetabuli (ab.), J. Gilmour, May, 646.  
Deformity, Relationship of acetabular, to spontaneous osteo-arthritis of hip joint (ab.), J. Gilmour, April, 520.

### ADOLESCENCE

Adolescent deformities of acetabulum: investigation into nature of protrusio acetabuli (ab.), J. Gilmour, May, 646.

### ALCOHOL

Bezoars, Shellac, H. H. Inlow, May, 618.

### ALIMENTARY TRACT. *See Gastro-intestinal tract.*

### ANEURYSM

Cardiac aneurysm (ab.), J. Parkinson, D. E. Bedford, and W. A. R. Thompson, March, 384.  
Cardiac aneurysm (ab.), L. H. Berk, May, 645.

Intrathoracic aneurysms (ab.), P. Kerley, March, 384.

### ANIMAL EXPERIMENTATION

Cancer, Irradiation and hereditary mammary, S. E. Owen and E. A. Williams, May, 541.

Carcinoma and sarcoma, Production of transplantable, in guinea pigs by injections of thorotrust (ab.), L. Foulds, March, 384.

Osteochondritis deformans juvenilis in dogs (ab.), P. C. Eichholz and A. M. Ernst, March, 384.

Radiation, Influence of wave length on biological effectiveness of (ab.), H. G. Crabtree and L. H. Gray, March, 385.

Radiobiology, Factor "lambda" in (ab.), M. Lapenna, Jan., 113.

Roentgen rays, Effect of, on bone marrow *in vivo* and *in vitro* (ab.), A. Gregori, Jan., 113.

Roentgen rays, Experimental study of effects of, on gonads of sexually mature domestic fowl, J. M. Essenberg and R. J. Karrasch, March, 358.

Sarcoma *in vivo* and *in vitro*, Effect of roentgen rays on Galliera (ab.), G. Tonio, Jan., 113.

Tumor of known genetic constitution, Preliminary report of effect of x-rays on, M. C. Reinhard and S. G. Warner, April, 438.

X-rays, Is there effect of, on skeletal muscles if doses applied do not exceed skin tolerance? Ab., H. Bade, Jan., 113.

### ANKLE

Fractures in region of ankle joint (ab.), W. D. Griesemer, May, 644.

### ANUS

Carcinoma of rectum and anus, What can one expect from radiation? Ab., O. N. Meland, March, 389.

### AORTA

Coarctation of aorta: report of case (ab.), E. R. Schwartz and G. M. Tice, April, 518.

Coarctation of aorta: report of case with rupture distal to constriction (ab.), J. T. Hecker, Jan., 124.

### APPARATUS

Compression device, Experiences with, in examinations of alimentary tract, R. Golden and P. C. Swenson, April, 457.

Control cabinet, Milliammeter inaccuracy caused by, M. M. D. Williams, June, 691.

Determination of r unit, Absolute, in Radiological Department of University of Tokio (ab.), S. Nishikawa, M. Nakaidzumi, and N. Motida, March, 385.

Drain, Lost, and roentgen-ray identification (ab.), H. S. Crossen and W. G. Scott, Jan., 114.

Electrons, Principles of new therapy with high speed: preliminary report, R. Schindler, Feb., 222.

Fluorescence, Roentgen-ray, and biology (ab.), M. Lenzi, Jan., 114.

Generator, One-million volt, for producing radio-active substances (ab.), E. P. Vanoni, Jan., 114.

<sup>1</sup> A number in parentheses following the folio indicates that on that page is to be found a special reference to the indexed subject.

High voltage radiations, Biologic measurement of, C. Packard, Jan., 17.

"Pendulum" irradiation, Measurements during (ab.), M. Bender and A. Köhler, Jan., 114.

Planigraphy, Simplified, D. Wheeler and E. W. Spencer, April, 499.

Roentgenograms, New device for facilitating taking of, when performing extra-articular method of internal fixation in fractures of femoral neck (ab.), J. I. Sloat and L. T. Peterson, May, 644.

Roentgenographic unsharpness of shadow of moving object—II, S. R. Warren, Jr., June, 731.

Roentgenography, Rapid, in operating room, with single solution (ab.), F. R. Wilkinson, Jan., 113.

Spanish standard for absolute determination of international roentgen unit, First measurements with, H. T. Plasencia, Jan., 82.

Stereoradiographic centering apparatus, Applications of, in otology and general surgery. Part I.—Radiographic analysis in otology. Part II.—Combined method for localization and extraction of radiopaque objects by means of "light compasses" (ab.), C. Chausse, March, 385.

Stereoscopic measurements, Simple method for (ab.), H. Christensen, Jan., 114.

Supervoltage roentgen therapy in cancer, Clinical aspects of, W. E. Costolow, Jan., 28.

X-ray illuminator, Simple device for changing light intensity in (ab.), E. J. Van Liere and D. W. Northrup, March, 385.

### APPENDIX

Appendiceal stump, Protrusion of, following appendectomy, M. Feldman, May, 571.

Invaginated appendiceal stumps roentgenologically simulating polyoid neoplasms, H. M. Weber and C. A. Good, Jr., April, 440.

### ARM

Humero-scapular periarthritis, X-ray treatment of (ab.), S. Mustakallio, Jan., 114.

### ARTHRITIS

Osteo-arthritis of hip joint, Relationship of acetabular deformity to spontaneous (ab.), J. Gilmour, April, 520.

Periarthritis, humero-scapular, X-ray treatment of (ab.), S. Mustakallio, Jan., 114.

Roentgen therapy for painful conditions of bones and joints, H. C. Ochsner and E. B. Mumford, April, 444.

### ATOMS

Nuclear physics, Recent advances in, E. U. Condon, May, 581.

### BACKACHE

Spinal osteoporosis, Painful (ab.), P. P. Ravault, J. Gruber-Duverney, and G. Léger, Jan., 114.

### BESNIER-BOECK'S DISEASE. *See Tumors, sarcoid.*

### BILHARZIASIS. *See Schistosomiasis.*

### BILARY TRACT

Extrahepatic biliary ducts, Experimental researches on radiological anatomy of (ab.), P. L. Cova and G. Tempini, Jan., 115.

Fistula, Roentgenologic demonstration of, between biliary system and intestinal tract (ab.), R. du Mesnil de Rochemont, Jan., 122.

Gall bladder, Roentgen diagnosis of strawberry, G. Levene, R. M. Lowman, and E. G. Wissing, April, 391.

Gallstones: ten years' surgical experience (ab.), L. Barrington-Ward, Jan., 123.

Roentgen diagnosis of biliary passages (ab.), K. A. Zwicker, Jan., 115.

Roentgenologic study of gall bladder and bile ducts (ab.), W. M. Barron, Jan., 123.

### BIOLOGIC EXPERIMENTATION

*Drosophila* pupa, Responses of, to x-rays, P. S. Henshaw and I. M. Golomb, June, 721.

Electrons, Principles of new therapy with high speed: preliminary report, R. Schindler, Feb., 222.

"Lambda" in radiobiology, Factor (ab.), M. Lapenna, Jan., 113.

Measurement, Biologic, of high voltage radiations, C. Packard, Jan., 17.

Radiation biology, Some unsolved problems of (ab.), P. del Buono, March, 386.

Seedlings, Further studies with, on question of wave length dependence of radiobiological reactions (ab.), P. S. Henshaw and D. S. Francis, March, 386.

Supervoltage roentgen therapy, Differences between 200 kilovolt and, R. Dresser, J. C. Rude, and B. J. Cosman, Jan., 13.

**BIOLOGIC EXPERIMENTATION—Continued**

X-rays on anterior and posterior regions of *Tubifex tubifex*, Differential action of, H. Branson and H. Kersten, Feb., 200.

Yeast growth: possible test organism for x-radiation, O. W. Richards, March, 317.

**BLADDER**

Cancer, Clinical aspects of supervoltage roentgen therapy in, W. E. Costolow, Jan., 28 (29).

Carcinomas, New approach to treatment of certain bladder, L. S. Goin and E. F. Hoffman, Feb., 205.

Two years' experience with 400 kv. constant potential deep therapy, D. Steel, Feb., 187 (190).

**BLOOD**

Leukemia, Hematologic diagnosis and roentgenologic treatment of myelogenous, W. C. Popp and C. H. Watkins, June, 663.

Polycythemia, Roentgen therapy of (ab.), L. Siciliano, Jan., 129.

Polyctyhemia, Treatment of, by means of general body exposure with roentgen rays (ab.), O. Simon, Jan., 128.

**sedimentation**

Erythrocyte sedimentation, Brief observation on, in relation to irradiated malignant tumors, M. F. Madrazo, June, 668.

**BLOOD SUGAR, hypoglycemia**

Anterior pituitary tumor associated with cachexia, hypoglycemia, and duodenal ulcer (ab.), M. P. Foley, A. M. Snell, and W. M. Craig, June, 759.

**BODY, size**

Body build and heart size: study of 20 pairs of identical twins and 15 pairs of unrelated individuals with similar body height and weight (ab.), W. J. Comeau and P. D. White, May, 646.

**BONES**

Epiphyseal dysplasia punctularis (stippled epiphyses): report of case not associated with hyperthyroidism, J. A. McCullough and C. G. Sutherland, Feb., 131.

Metastasis to bone from carcinoma of gastro-intestinal tract (ab.), R. K. Ghormley and J. E. Valls, June, 757.

Necrosis of head of femur, Secondary, after traumatic dislocation of hip joint in 14-year-old patient (ab.), Hans Heinz Mutschler, Jan., 125.

Petrositis: roentgenologic and pathologic correlation (ab.), E. P. Fowler, Jr., and P. C. Swenson, Feb., 256.

Petrosal temporal bone, Air cells in, in child of 13 years (ab.), J. G. Wilson, Feb., 256.

Roentgen therapy for painful conditions of bones and joints, H. C. Ochsner and E. B. Mumford, April, 444.

Skeletal metastasis in cancer (ab.), C. F. Geschickter and I. H. Maseritz, June, 757.

Talocalcaneal articulation, Anomalous: double ankle bones, M. S. Burman and S. E. Sinberg, Feb., 239.

**changes**

Fluorine poisoning, Chronic, seen from roentgenological standpoint (ab.), P. F. Moller, April, 514.

**diseases**

Chondrodysplasia, Hereditary deforming: report of ten cases in one family (ab.), C. M. Graney, March, 386.

Chondro-epiphysitis, Endocrine implication of juvenile (ab.), R. L. Schaefer, F. L. Strickroot, and F. H. Purcell, March, 387.

Dysplasia, Punctate epiphyseal, occurring in two members of same family (ab.), D. G. Maitland, March, 387.

Myelogenous leukemia, Hematologic diagnosis and roentgenologic treatment of, W. C. Popp and C. H. Watkins, June, 663.

Osteitis deformans (Paget's disease), Traumatic fracture of pelvis and wrist, complicated by (ab.), H. H. Huber and A. Yaffe, April, 516.

Osteitis fibrosa cystica, Hyperparathyroidism associated with (ab.), H. S. Sharpe, Jan., 124.

Osteo-arthritis, spontaneous, of hip joint, Relationship of acetabular deformity to (ab.), J. Gilmour, April, 520.

Osteochondritis deformans juvenilis in dogs (ab.), P. C. Eichholz and A. M. Ernst, March, 384.

Osteomyelitis, Acute, of vertebral body following compression fracture (ab.), R. F. Atsatt, Jan., 122.

Osteomyelitis of sphenoid bone: report of five cases with autopsy findings (ab.), H. C. Ballenger, Jan., 115.

Osteopetrosis: case report, S. R. Beatty and G. Ritchie, March, 338.

Osteoporosis, Painful spinal (ab.), P. P. Ravault, J. Gruber-Duverney, and G. Léger, Jan., 114.

Tuberculosis of symphysis pubis (ab.), L. Alpert, Jan., 115.

fractures. See **Fractures**.

**marrow**

Roentgen rays, Effect of, on bone marrow *in vivo* and *in vitro* (ab.), A. Gregori, Jan., 113.

**tumors**

Adamantinoma of tibia (ab.), J. O. Rankin, Feb., 257.

Malignant giant-cell tumor of bone: report of cases involving tibia (ab.), S. Kleinberg, Feb., 259.

Metastatic bone carcinomatosis associated with parathyroid hyperplasia and with symptoms of hyperparathyroidism: with blood calcium and phosphorus studies before and after extirpation of hyperplastic parathyroid gland (ab.), S. Ben-Asher, March, 388.

Myeloma, Multiple: case report, M. Batts, Jr., March, 368.

Sarcoma, Osteogenic, occurring in fragilitas ossium: case report, F. C. Jewell and J. E. Lofstrom, June, 741.

Tumors of ankle (ab.), W. G. Stuck and D. A. Todd, Feb., 257.

Tumors of bone (ab.), C. C. Simmons, March, 388.

**BOOKS, received and reviewed**

Alvarez, Walter C., Introduction to Gastro-enterology (rec.), May, 640.

Bannen, J. E., Radiology of Pulmonary Tuberculosis (rev.), May, 642.

Beckermann, Franz, Hepatolienography with Iodosol (rec.), May, 640.

Berner, Friedrich, with Holzfelder, Hans, jt. auth., Dusty Lungs (rec.), May, 640.

Cole, Lewis Gregory, Pneumoconiosis (Silicosis): Story of Dusty Lungs (rec.), May, 640.

Coudaud, A., with Tillé, Henri, jt. auth., Tumors of Skin, Benign and Malignant (rec.), Jan., 109; (rev.), May, 641.

Firor, Whitmer B., with Waters, Charles A., jt. ed., Gomez, Gonzalo Esguerra, Radiodiagnosis. Volume I.—Physics of X-rays—Apparatus (rec.), May, 640.

Idem, Radiodiagnosis. Volume II.—Osseous System (rec.), May, 640.

Graham, A. Stephens, with Rankin, Fred W., jt. auth., Grashey, Rudolph, Embedded Projectiles and Roentgen Rays: Examination and Treatment (rec.), May, 640.

Hamblen, E. C., Endocrine Gynecology (rec.), Feb., 250; (rev.), April, 512.

Hodges, Fred Jenner, and Peck, Willis Seamans, Introduction to Radiology (rec.), Jan., 109.

Holzfelder, Hans and Berner, Friedrich, Atlas of Serial Roentgenograms of Thorax: On Basis of Evaluation of More than 900,000 Serial Screen Views (rec.), Jan., 109; (rev.), Feb., 252.

Kaplan, Ira I., and Rubenfeld, Sidney, Topographic Atlas for X-ray Therapy (rec.), Jan., 110.

Kaplan, Ira I., with Waters, Charles A., jt. ed., Liljencrantz, Eric (ed.), Cancer Handbook of Tumor Clinic (rec.), Jan., 109.

Merck Index (rec.), Feb., 250.

Morris, Hugh, Physiotherapy in Medical Practice (rec.), Jan., 110.

Peck, Willis Seamans, with Hodges, Fred Jenner, jt. auth., Rankin, Fred W., and Graham, A. Stephens, Cancer of Colon and Rectum (rec.), Feb., 250.

Rodman, J. Stewart, with Titus, Paul, jt. ed., Rubenfeld, Sidney, with Kaplan, Ira I., jt. auth., Sante, L. R., Principles of Roentgenological Interpretation (rec.), May, 640.

Scott, S. Gilbert, Wide Field X-ray Treatment: Value of X-ray Bath Method in Disease and Health (rec.), May, 640.

Simon, O., Radiographic Differential Diagnosis of Diseases of Lungs with Special Consideration of Lateral Position (rec.), Jan., 109; (rev.), March, 382.

Steindler, Arthur, Orthopedic Operations (rec.), May, 641.

Streicher, M. H., Proctoscopic Examination and Diagnosis and Treatment of Diarrhea (rec.), Jan., 109; (rec.), Feb., 232.

Tillé, Henri, and Coudaud, A., Clinical Atlas of Photographs of Fundus of Eye (rec.), Feb., 251.

Titus, Paul, and Rodman, J. Stewart (eds.), Directory of Medical Specialists (rec.), May, 640.

Uhlenbruck, Paul, Diseases of Heart, Clinical, Roentgenologic, and Electrocardiographic Aspects (rec.), Feb., 251.

Vinson, Porter C., Diagnosis and Treatment of Diseases of Esophagus (rec.), Feb., 350.

Waters, Charles A., Firor, Whitmer B., and Kaplan, Ira I. (eds.), 1939 Year Book of Radiology (rec.), Jan., 109.

Zimmer, E. A., Sternum and its Joints (rec.), Feb., 252.

**BRAIN**

Metastasis, Primary sarcoma of lung with brain (ab.), R. C. Ellis, Jan., 126.

**BREAST**

Acute puerperal mastitis, Roentgen therapy in, J. F. Edward and S. M. Dodek, Feb., 166.

Cancer, Irradiation and hereditary mammary, S. E. Owen and E. A. Williams, May, 541.

Cancer of breast, irradiation in treatment of (ab.), U. V. Portmann, March, 388.

Cancer, X-ray therapy: prophylactic agent in prevention of (ab.), R. C. Curtis, Jan., 118.

Carcinoma, mammary, following inactivation of ovaries by irradiation, Regression of pulmonary metastases from: report of two cases, H. B. Hunt, Feb., 235.

Carcinoma of breast, Technic of post-operative radiation therapy in (ab.), F. Perussia, Jan., 116.

Carcinoma of breast, X-ray treatment of (ab.), L. C. Kinney, Jan., 116.

Carcinoma, Radiologic treatment of skeletal metastases in mammary (ab.), H. B. Wulff, Jan., 116.

Lump in breast, Clinical significance of (ab.), G. Crile, Jr., March, 388.

Therapy, Two years' experience with 400 kv. constant potential deep, D. Steel, Feb., 187 (191).

**BRONCHI**

Bronchomycosis, Roentgenological aspects of, H. P. Doub, March, 267.

Carcinoma, Cavitary bronchogenic, H. Hauser and S. E. Wolpaw, June, 698.

Fibrolipoma of bronchus: report of case (ab.), T. H. McGlade, Feb., 258.

**BRONCHOGRAPHY**

Lung abscesses, Bronchographic study of apparently healed (ab.), R. M. Franklin, June, 757.

**BRONCHOMYCOSIS.** *See* Bronchi.

**CALCIFICATION**

Anterior thoracic wall, Calcification of cold abscess of: rare complication in tuberculous pleural effusion (ab.), G. Caselli, Jan., 119.

Cystadenoma of thyroid, Calcification of (ab.), C. Bunch, Feb., 256.

Epiphyseal dysplasia, Punctate, occurring in two members of same family (ab.), D. G. Maitland, March, 387.

Tuberculosis, Primary complex of childhood: analysis of x-ray examinations of 857 cases with positive Mantoux reactions (ab.), F. H. Tyner, Feb., 256.

**CANCER**

Bladder carcinomas, New approach to treatment of certain, L. S. Goin and E. F. Hoffman, Feb., 205.

Bone carcinomatosis, Metastatic, associated with parathyroid hyperplasia and with symptoms of hyperparathyroidism: with blood calcium and phosphorus studies before and after extirpation of hyperplastic parathyroid gland (ab.), S. Ben-Asher, March, 388.

Bowel, Polyps of large, E. L. Jenkinson, April, 489.

Breast, Irradiation in treatment of cancer of (ab.), U. V. Portmann, March, 388.

Breast, Technic of post-operative radiation therapy in carcinoma of (ab.), F. Perussia, Jan., 116.

Breast, X-ray treatment of carcinoma of (ab.), L. C. Kinney, Jan., 116.

Bronchogenic carcinoma, Cavitary, H. Hauser and S. E. Wolpaw, June, 698.

Buccal carcinoma, Surgical treatment of lymphatic fields in (ab.), F. J. Morris, Jan., 129.

Buccal carcinoma, Treatment of (ab.), O. Chance, Jan., 118.

Carcinomas of cervix, Reaction of, to known doses of 800 kv. roentgen rays: five-, four-, and three-year survival rates, H. Schmitz, Jan., 34.

Castration of female by irradiation: results in 334 patients, W. S. Peck and J. T. McGreer with N. R. Kretschmar and W. S. Brown, Feb., 176.

Cervix, Individualized radium therapy of carcinoma of (ab.), H. Reichenmiller, June, 760.

Cervix of uterus, Cancer of (ab.), D. B. Ludwig, Jan., 119.

Cervix, Report of cases of carcinoma of, treated in 1932 and 1933, at Cancer Institute in Strassburg (ab.), A. Gunset, Jan., 118.

Cervix uteri, Survey of 293 cases of cancer of, 223 of which were treated from 1916 to 1933, by radiation therapy at Grace Hospital, Detroit (ab.), R. H. Stevens and A. K. Payne, Feb., 259.

Colon, Roentgenological differential diagnosis between cancer and diverticulitis of, R. Schatzki, June, 651.

Cutaneous cancer and parent tissue, Comparative studies of effect of radiation after simultaneous irradiation of (ab.), Paltrinieri and B. Galavotti, Jan., 117.

Gastro-intestinal tract, Bone metastasis from carcinoma of (ab.), R. K. Ghormley and J. E. Valls, June, 757.

Gastro-intestinal tract, Early diagnosis of cancer of, and Gruskin malignancy test (ab.), S. Tashian, Jan., 116.

Irradiated malignant tumors, Brief observation on erythrocyte sedimentation in relation to, M. F. Madrazo, June, 668.

Larynx, Present conception of treatment of cancer of, H. Coutard, Feb., 136.

Larynx, Roentgen consideration of lesions in and about (ab.), T. J. Wachowski, June, 755.

Larynx, Surgical treatment of cancer of, J. H. McCready, Feb., 146.

Larynx, Treatment of cancer of, with comparison of results obtained by surgery and radiation therapy (ab.), M. F. Arbuskle, June, 756.

Lung, Primary carcinoma of (ab.), J. B. Flick and J. T. Bauer, Jan., 117.

Mammary cancer, Irradiation and hereditary, S. E. Owen and A. E. Williams, May, 541.

Mammary carcinoma following inactivation of ovaries by irradiation, Regression of pulmonary metastases from: report of two cases, H. B. Hunt, Feb., 235.

Mammary carcinoma, Radiologic treatment of skeletal metastases in (ab.), H. B. Wulff, Jan., 116.

Metastasis in cancer, Skeletal (ab.), C. F. Geschickter and I. H. Maseritz, June, 757.

Metastatic cancer in lymph nodes of neck (ab.), H. G. F. Edwards, March, 389.

Pharyngeal cancer, Variations in radiation technic and biologic effects in treatment of, H. E. Martin, Feb., 149.

Primary squamous-cell carcinoma of uvula: report of two cases (ab.), J. M. Robb and M. W. Michels, March, 389.

Production of transplantable carcinoma and sarcoma in guinea pigs by injections of thorotrast (ab.), L. Foulds, March, 384.

Rectum and anus, What can one expect from radiation in carcinoma in? Ab., O. N. Meland, March, 389.

Rectum, Treatment of carcinoma of, by electrocoagulation and radiation, in selected cases, H. I. Tepper, May, 610.

Roentgen therapy, Distribution of radiation in per vaginal, M. C. Morrison, April, 451.

Roentgen therapy in cancer, Clinical aspects of super-voltage, W. E. Costolow, Jan., 28.

Sigmoid colon, Carcinoma of (radiological study) ab., A. C. Singleton and M. R. Hall, Jan., 120.

Skin and lip cancer, Roentgen therapy of (ab.), J. Horvath, Jan., 117.

Skin cancer, Low voltage roentgen therapy in (ab.), W. S. MacComb, Jan., 117.

Stomach, Cancer of, W. C. MacCarty (Carman Lecture), Jan., 1.

Stomach, Radio-surgical treatment of carcinoma of (ab.), A. Salotti, March, 389.

Stomach, Results of roentgen "convergent" irradiation in treatment of carcinoma of (ab.), M. Nakaidzumi and S. Tarusawa, Feb., 255.

Therapy, Two years' experience with 400 kv. constant potential deep, D. Steel, Feb., 187.

Treatment of carcinoma of vallecula (ab.), E. Wessely, March, 389.

Upper respiratory and intestinal tracts, Results of protracted fractional roentgen therapy of carcinoma of, from 1930 to 1938 (ab.), R. Glauner, S. Teufel, and A. Daigler, Jan., 119.

Uterine cervix, Biopsy of: end-results of 100 consecutive interventions (ab.), L. E. Phaneuf and M. O. Belson, Feb., 260.

Uterus, Results in treatment of carcinoma of (ab.), H. Goecke, Jan., 118.

X-ray therapy: prophylactic agent in prevention of cancer (ab.), R. C. Curtis, Jan., 118.

X-ray treatment of cancer in small communities (ab.), F. W. O'Brien, Jan., 119.

**CARBUNCLE**, therapy

X-ray, Treatment of severe carbuncles by (ab.), F. W. O'Brien, May, 647.

**CARCINOMA.** *See* Cancer.

**CELLS**  
 Yeast growth: possible test organism for x-radiation, O. W. Richards, March, 317.

**CHEEKS**  
 Cancer, Clinical aspects of supervoltage roentgen therapy in, W. E. Costolow, Jan., 28.

**CHEST**  
 Calcification of cold abscess of anterior thoracic wall: rare complication in tuberculous pleural effusion (ab.), G. Cascelli, Jan., 119.

Fissure, horizontal, Significance of roentgen visibility of, P. T. Kies, March, 351.

Roentgenologic diagnosis of thoracic diseases other than tuberculous (ab.), W. G. Scott, Jan., 119.

Surveys, Miniature films in chest, H. E. Potter, Jan., 62.

Visualization of chambers of heart, pulmonary circulation, and great blood vessels in man: practical method (ab.), G. P. Robb and I. Steinberg, April, 518.

X-ray chest film, Miniature, H. E. Potter, B. T. Douglas, and C. C. Birkel, March, 283. *See* Thor.

**CHILDREN**

Chondro-epiphysis, Endocrine implication of juvenile (ab.), R. L. Schaefer, F. L. Strickroot, and F. H. Purcell, March, 387.

Mid-gut loop in children, Two cases of non-rotation of (ab.), P. L. Lipsky, May, 648.

Peptic ulcers, Chronic, in children (ab.), H. B. Kellogg, June, 759.

Rheumatic heart disease, Value of special radiologic procedures in detecting cardiac enlargement in children with (ab.), A. G. Kuttner and G. Reversbach, May, 644.

Tuberculosis, Primary complex of childhood: analysis of x-ray examinations of 857 cases with positive Mantoux reactions (ab.), F. H. Tyner, Feb., 256.

**CHOLECYSTOGRAPHY**

Cholecystography from roentgenologic aspect, Some practical considerations of (ab.), E. P. Pendergrass, March, 390.

Cholecystography in its fifteenth year (ab.), B. R. Kirklin, April, 516.

Cholecystography: optimum voltage: tetrabrom-tetraiodophenolphthalein, R. R. Newell and R. Briggs, May, 568.

**COLON**

Cancer and diverticulitis of colon, Roentgenological differential diagnosis between, R. Schatzki, June, 651.

Carcinoma of sigmoid colon (radiological study) ab., A. C. Singleton and M. R. Hall, Jan., 120.

Cellulitis of colon: manifestation of diverticulitis (ab.), W. A. Hailes, Jan., 120.

Polyposis coli, Roentgen diagnosis of (ab.), A. Knetsch, March, 390.

Polyposis, Diffuse, of large bowel, with case report (ab.), A. Y. Mason, March, 390.

Roentgenological consideration of colon (ab.), R. G. Giles, Jan., 120.

**CONTRACTURE, ischemic**

Volkmann's ischemic contracture, Fracture of elbow and (ab.), H. W. Meyerding, Jan., 122.

**CONTRAST MEDIA**

Arthrography in congenital dislocation of hip (ab.), E. Severin, Jan., 126.

Extrahepatic biliary ducts, Experimental researches on radiological anatomy of (ab.), P. L. Cova and G. Tempi, Jan., 115.

**CONTRAST MEDIA—Continued**

Perivascular injection of thorotrast. Accidental: report of two cases, S. E. Ziffren, Feb., 171.

Visualization of chambers of heart, pulmonary circulation, and great blood vessels in man: practical method (ab.), G. P. Robb and I. Steinberg, April, 518.

**CORRECTION**

Brafsford, James F., note of, March, 382.

**CRANIUM**

"Basilar impression," Diagnosis of, A. Schüller, Feb., 214.

Fracture and surgery. Fate of cranial defects secondary to: follow-up study of 150 patients, M. A. Glaser and E. S. Blaine, June, 671.

**DEFICIENCY DISEASES**

Sprue, Non-tropical (ab.), A. L. Burgdorf and T. A. Barry, April, 514.

**DIABETES MELLITUS**

Radiobiologic observations (ab.), G. Dell'Acqua, April, 514.

**DIATHERMY**

Carcinomas, bladder. New approach to treatment of certain, L. S. Goin and E. F. Hoffman, Feb., 205 (206).

Carcinoma of rectum. Treatment of, by electrocoagulation and radiation, in selected cases, H. I. Teperson, May, 610.

**DISCUSSIONS**

Allen, Kenneth, of Symposium on Difference between 200 Kilovolt and Supervoltage Roentgen Therapy, Jan., 40.

Birkelo, Carl C., of "Miniature films in chest surveys," H. E. Potter, Jan., 63.

Bloom, Arthur R., of "Tuberculous hilar and mediastinal adenopathy in adults," B. P. Widmann, H. W. Ostrum, and J. S. Fetter, May, 529.

Bowen, Albert, of Symposium on Chest Examination, March, 298.

Bowing, Harry H., of "Castration of female by irradiation: results in 334 patients," W. S. Peck and J. T. McGreer with N. R. Kretschmar and W. S. Brown, Feb., 184.

Brown, Samuel, of Symposium on Gastro-intestinal Diseases, April, 496.

Camp, John D., of "Benign duodenal-colic fistula with report of two cases," C. N. McPeak, March, 349.

Case, James T., of "Roentgenological differential diagnosis between cancer and diverticulitis of colon," R. Schatzki, June, 660.

Corrigan, Kenneth E., of Symposium on Difference between 200 Kilovolt and Supervoltage Roentgen Therapy, Jan., 42.

Idem, of "Recent advances in nuclear physics," E. U. Condon, May, 586.

Costolow, William, of Symposium on Treatment of Carcinoma of Pharynx and Larynx, Feb., 163.

Doub, Howard P., of Symposium on Industrial Diseases, April, 424.

Ehrlich, David E., of "Miniature films in chest surveys," H. E. Potter, Jan., 65.

Feldman, Maurice, of "Roentgenological differential diagnosis between cancer and diverticulitis of colon," R. Schatzki, June, 661.

Idem, of "Duodenal ulcer in presence of gall-bladder symptomatology," E. J. Ryan, June, 689.

Garland, Leo Henry, of Symposium on Difference between 200 Kilovolt and Supervoltage Roentgen Therapy, Jan., 40.

Idem, of Symposium on Gastro-intestinal Diseases, April, 495.

George, Aerial W., of Symposium on Industrial Diseases, April, 423.

Glaser, Otto, of Symposium on Difference between 200 Kilovolt and Supervoltage Roentgen Therapy, Jan., 37.

Green, Joseph H., of "Tuberculous hilar and mediastinal adenopathy in adults," B. P. Widmann, H. W. Ostrum, and J. S. Fetter, May, 529.

Grier, George W., of "Pulmonary involvement in lymphoblastomas: special reference to roentgen aspects," A. Hartung, March, 315.

Harris, W., of Symposium on Treatment of Carcinoma of Pharynx and Larynx, Feb., 164.

Harrison, Stewart, of "Pulmonary involvement in lymphoblastomas: special reference to roentgen aspects," A. Hartung, March, 315.

Hawley, S. J., of Symposium on Pulmonary Diseases, May, 607.

Henshaw, Paul S., of Symposium on Difference between 200 Kilovolt and Supervoltage Roentgen Therapy, Jan., 37.

Jackson, Chevalier L., of Symposium on Treatment of Carcinoma of Pharynx and Larynx, Feb., 164.

Lawrence G. C., of Symposium on Difference between 200 Kilovolt and Supervoltage Roentgen Therapy, Jan., 41.

Lenz, Maurice, of Symposium on Treatment of Carcinoma of Pharynx and Larynx, Feb., 161.

Murphy, John T., of "New approach to treatment of certain bladder carcinomas," L. S. Goin and E. F. Hoffman, Feb., 213.

Newcomer, Nathan B., of "Roentgen diagnosis of strawberry gall bladder," G. Levene, R. M. Lowman, and E. G. Wissing, April, 397.

Idem, of "Duodenal ulcer in presence of gall-bladder symptomatology," E. J. Ryan, June, 687.

Newell, R. R., of Symposium on Difference between 200 Kilovolt and Supervoltage Roentgen Therapy, Jan., 39.

Idem, of "Castration of female by irradiation: results in 334 patients," W. S. Peck and J. T. McGreer with N. R. Kretschmar and W. S. Brown, Feb., 185.

Idem, of "Radium protection: measurements of exposure to gamma rays," R. E. Fricke and M. M. D. Williams, May, 567.

Packard, Charles, of Symposium on Difference between 200 Kilovolt and Supervoltage Roentgen Therapy, Jan., 42.

Phillips, Clyde C., of "Castration of female by irradiation: results in 334 patients," W. S. Peck and J. T. McGreer with N. R. Kretschmar and W. S. Brown, Feb., 185.

Quimby, Edith H., of "Radium protection: measurements of exposure to gamma rays," R. E. Fricke and M. M. D. Williams, May, 566.

Rhinhart, B. A., of "Roentgen diagnosis of strawberry gall bladder," G. Levene, R. M. Lowman, and E. G. Wissing, April, 398.

Idem, of "Duodenal ulcer in presence of gall-bladder symptomatology," E. J. Ryan, June, 688.

Rigler, L. G., of Symposium on Pulmonary Diseases, May, 608.

Schmitz, Henry, of Symposium on Difference between 200 Kilovolt and Supervoltage Roentgen Therapy, Jan., 42.

Sosman, Merrill C., of Symposium on Chest Examination, March, 296.

Taylor, Lauriston S., of Symposium on Difference between 200 Kilovolt and Supervoltage Roentgen Therapy, Jan., 39.

Taylor, Lauriston S., of Symposium on Difference between 200 Kilovolt and Supervoltage Roentgen Therapy, Jan., 42.

Idem, of "Radium protection: measurements of exposure to gamma rays," R. E. Fricke and M. M. D. Williams, May, 567.

Ward, Charles B., of Symposium on Difference between 200 Kilovolt and Supervoltage Roentgen Therapy, Jan., 40.

**DOSAGE**

Castration of female by irradiation: results in 334 patients, W. S. Peck and J. T. McGreer with N. R. Kretschmar and W. S. Brown, Feb., 186.

Difference between 200 and 500 kilovolt radiation, Physical factors influencing, K. E. Corrigan, Jan., 8.

Effective dose of combined gamma-ray and neutron preparations, Determination of (ab.), K. G. Zimmer, H. J. Born, and P. M. Wolf, Jan., 129.

Gamma-ray therapy in surface application of radium, New technic and dosage system for (ab.), M. Strandqvist, Jan., 129.

Measurement of high voltage radiations, Biologic, C. Packard, Jan., 17.

Protraction and fractionation, Experimental investigations on importance of (ab.), B. Faber, May, 644.

Radiation doses and type of reaction in fractional irradiation of very small skin areas by means of near distance treatment technic (ab.), A. Kautsky, Late sequelae of divergent biologic skin effects produced by, E. R. Witwer and T. Leucutia, Jan., 24.

Roentgen rays, Effect of on bone marrow *in vivo* and *in vitro* (ab.), A. Gregori, Jan., 113.

Roentgen rays, Experimental study of effects of, on gonads of sexually mature domestic fowl, J. M. Essenberg and R. J. Karrash, March, 358.

Roentgen rays, Reaction of carcinomas of cervix to known doses of 800 kv: five-, four-, and three-year survival rates, H. Schmitz, Jan., 34.

Roentgen therapy, Distribution of radiation in pere vaginal, M. C. Morrison, April, 451.

Roentgen therapy in cancer, Clinical aspects of supervoltage, W. E. Costolow, Jan., 28 (31).

Roentgen therapy in sinus disease, Evaluation of, J. R. Maxfield, Jr., and C. L. Martin, March, 300 (308).

Supervoltage roentgen therapy, Differences between 200 kilovolt and R. Dresser, J. C. Rude, and B. J. Cosman, Jan., 13.

"Tangent" irradiation, Dosimetric studies of (ab.), C. Esser, April, 514.

Teleradium and supervoltage x-ray machine, Therapeutic and economic indications for, C. D. Lucas, Feb., 193.

X-rays on skeletal muscles, Is there effect of, if doses applied do not exceed skin tolerance? Ab., H. Bade, Jan., 113.

X-rays, Responses of *Drosophila* pupae to, P. S. Henshaw and J. M. Golomb, June, 721.

**DUODENUM**

Fistula, Benign duodenal-colic, with report of two cases, C. N. McPeak, March, 343.

Ulcer, Duodenal, in presence of gall-bladder symptomatology, E. J. Ryan, June, 685.

Ulcers, Duodenal, located at distal portion of cap, and ulcers of duodenum beyond extrabulbar cap (ab.), L. Muecke and R. Martinet, Jan., 128.

**EAR**

Acoustic nerve tumor, Simple x-ray technic easily interpreted, for diagnosis of (ab.), J. Dereux and H. Monnier, Feb., 238.

Mastoiditis in congenitally deformed ears (ab.), A. T. Wanamaker, April, 514.

Stereoradiographic centering apparatus, Applications of in otology and general surgery, Part I.—Radiographic analysis in otology, Part II.—Combined method for localization and extraction of radiopaque objects by means of "light compasses" (ab.), C. Chaussé, March, 385.

**ELBOW**

Fracture of elbow and Volkmann's ischemic contracture (ab.), H. W. Meyerding, Jan., 122.

**ELECTROCOAGULATION.** *See Diathermy.*  
**ELECTRONS.** *See Radio-activity.*

**EMPHYSEMA**

Asthmatic emphysema, Bilateral spontaneous pneumothorax following (ab.), J. Ribeiro Carvalho and C. da Silva Lacaz, Feb., 254.  
 Congenital cystic malformation of lungs, formerly known as "vesicular" or "hypertrophic pulmonary emphysema," recently described as "congenital cystic disease of lungs," with report of case, C. T. Sharpe, June, 692.

**ENDOCRINE GLANDS**

Chondro-epiphysis, Endocrine implication of juvenile (ab.), R. L. Schaefer, F. L. Strickroot, and F. H. Purcell, March, 387.

Roentgen rays, Experimental study of effects of on gonads of sexually mature domestic fowl, J. M. Essenberg and R. J. Karrasch, March, 358.

**EOSINOPHILIA**

Lung infiltrations, Transitory, associated with eosinophilia. (Löffler's syndrome): report of case (ab.), D. C. W. Smith and A. J. Alexander, June, 757.

**EPIPHYES**

Dysplasia punctularis, Epiphyseal (stippled epiphyses): report of case not associated with hyperthyroidism, J. A. L. McCullough and C. G. Sutherland, Feb., 131.

**ESOPHAGUS**

Abscesses, Peri-esophageal: importance of early surgical interference (ab.), W. M. Hunt, Jan., 121.

Achalasia of esophagus (ab.), R. Flynn, Jan., 121.

Cancer, Clinical aspects of supervoltage roentgen therapy in, W. E. Costolow, Jan., 28.

Heartburn of pregnancy, Intractable, J. R. Evans and J. S. Bouslog, May, 530.

**FEMUR**

Fracture of neck of femur, Closed operation for intracapsular: final results in recent and old cases (ab.), T. King, April, 516.

Fractures of femoral neck, New device for facilitating taking of roentgenograms when performing extra-articular method of internal fixation of (ab.), J. I. Sloat and L. T. Peterson, May, 644.

Fractures of neck of femur, Fluoroscopic technic for nailing (ab.), L. V. Littig, Jan., 122.

Fractures of neck of femur: review of 33 consecutive cases (ab.), S. T. Irwin, Jan., 122.

Necrosis of head of femur, Secondary, after traumatic dislocation of hip joint in fourteen-year-old patient (ab.), Hans-Heinz Mutschler, Jan., 125.

**FETUS**

Measurements, Stereoscopic, of distances in female pelvis and on fetal skull (ab.), B. Westergaard, June, 757.

Papyraceous, Antepartum roentgenographic diagnosis of fetus, A. C. Johnston and M. C. Sosman, March, 261.

**FEVER**

Undulant fever, Vertebral lesions in (ab.), W. A. Bishop, Jr., Feb., 255.

**FISTULA**

Biliary system and intestinal tract. Roentgenologic demonstration of fistula between (ab.), R. du Mesnil de Rochemont, Jan., 122.

**FLUORIDES**

Fluorine poisoning, Chronic, seen from roentgenological standpoint (ab.), P. F. Moller, April, 514.

**FOREIGN BODIES**

Bearrs, Shellac, H. H. Inlow, May, 618.  
 Localization of foreign bodies, Simple radiographic methods for (ab.), J. F. Brailsford, April, 515.

Results, Late, of foreign bodies long retained in lower airways (ab.), E. F. Butler, N. S. Lincoln, J. K. Deegan, and R. Horton, April, 515.

Stereoradiographic centering apparatus, Applications of, in otology and general surgery. Part I.—Radiographic analysis in otology. Part II.—Combined method for localization and extraction of radiopaque objects by means of "light compasses" (ab.), C. Chausse, March, 385.

**FRACUTURES**

Ankle joint, Fractures in region of (ab.), W. D. Griesemer, May, 644.

Carpal navicular, Fractures of: importance of special roentgenography (ab.), A. S. Rothberg, May, 644.

Compression fracture, Acute osteomyelitis of vertebral body following (ab.), R. F. Atsatt, Jan., 122.

Cranial defects, Fate of, secondary to fracture and surgery: follow-up study of 150 patients, M. A. Glaser and E. S. Blaine, June, 671.

Elbow, Fracture of, and Volkmann's ischemic contracture (ab.), H. W. Meyerding, Jan., 122.

Femoral neck, New device for facilitating taking of roentgenograms when performing extra-articular method of internal fixation in fractures of (ab.), J. I. Sloat and L. T. Peterson, May, 644.

Femur, Closed operation for intracapsular fracture of neck of: final results in recent and old cases (ab.), T. King, April, 516.

Femur, Fluoroscopic technic for nailing fractures of neck of (ab.), L. V. Littig, Jan., 122.

Femur, Fractures of neck of: review of 33 consecutive cases (ab.), S. T. Irwin, Jan., 122.

Hip, Simpler method of internal fixation of fractures of (ab.), D. M. Stewart, April, 520.

Olecranon, Operation for fracture of (ab.), N. Dunn, Jan., 122.

Petrosus pyramid, Transverse fracture of (ab.), W. E. Grove, April, 516.

Spine, Supine position in emergency treatment of patients with fractured (ab.), G. Hyman, Jan., 130.

Traumatic fracture of pelvis and wrist, complicated by osteitis deformans (Paget's disease) ab., H. H. Huber and A. Yaffe, April, 516.

**FUNGI**

Bronchomycosis, Roentgenological aspects of, H. P. Doub, March, 267.

**GALL BLADDER**

Cholecystogram from roentgenologic aspect, Some practical considerations of (ab.), E. P. Pendergrass, March, 390.

Cholecystography in its fifteenth year (ab.), B. R. Kirklin, April, 516.

Cholecystography: optimum voltage: tetrabrom-*versus* tetraiodophenolphthalein, R. R. Newell and R. Briggs, May, 568.

Examinations, Value of upright position in gall-bladder, A. Ettinger, April, 481.

Gall-bladder disease in patients under 30 years of age (ab.), C. Bearse, April, 517.

Gallstones: ten years' surgical experience (ab.), L. Barrington-Ward, Jan., 123.

Roentgenologic study of gall bladder and bile ducts (ab.), W. M. Barron, Jan., 123.

Strawberry gall bladder, Roentgen diagnosis of, G. Levene, R. M. Lowman, and E. G. Wissing, April, 391.

Ulcer, Duodenal, in presence of gall-bladder symptomatology, E. J. Ryan, June, 685.

Urethral cavernoma, Roentgen findings in so-called (ab.), B. Stenström, April, 517.

**GASES**

Industrial gases, X-ray study of effects of, upon human lung, E. E. Evans, April, 411.

**GASTRO-INTESTINAL TRACT**

Cancer of gastro-intestinal tract, Early diagnosis of, and Gruskin malignancy test (ab.), S. Tashian, Jan., 116.

Carcinoma of gastro-intestinal tract, Metastasis to bone from (ab.), C. F. Geschickter and I. H. Maseritz, June, 757.

Carcinoma of sigmoid colon (radiological study), ab., A. C. Singleton and M. R. Hall, Jan., 120.

Carcinoma of upper respiratory and intestinal tracts, Results of protracted fractional roentgen therapy of, from 1930 to 1938 (ab.), R. Glauner, S. Teufel, and A. Daigger, Jan., 119.

Cardiology, Gastro-enterology in practice of (ab.), L. F. Bishop, Jr., April, 519.

Diverticula of stomach (ab.), W. Halloran, Feb., 255.

Duodenal ulcer, Anterior pituitary tumor associated with cachexia, hypoglycemia, and (ab.), M. P. Foley, A. M. Snell, and W. M. Craig, June, 759.

Duodenal ulcers located at distal portion of cap, and ulcers of duodenum beyond extrabulbar cap (ab.), L. M. Mucci and R. Martinet, Jan., 128.

Duodenocolic fistula, Benign, with report of two cases, C. N. McPeak, March, 343.

Esophagus, Achalasia of (ab.), R. Flynn, Jan., 121.

Examinations of alimentary tract, Experiences with compression device in, R. Golden and P. C. Swenson, April, 457.

Fistulae, Roentgenologic demonstration of, between biliary system and intestinal tract (ab.), R. du Mesnil de Rochemont, Jan., 122.

Gastritis, Ulcerative, and residual lesions (ab.), H. E. Robertson, June, 758.

Ileocecal region, A. Oppenheimer, May, 545.

Ileocecal region of gastro-intestinal tract, Roentgen diagnosis of diseases of (ab.), J. Jellen, Jan., 124.

Lymphadenitis, Mesenteric (ab.), A. Schwyzer, Jan., 123.

Peptic ulcer syndrome, Frequent non-ulcerous cause of (ab.), L. M. Morrison, W. A. Swalm, and C. L. Jackson, June, 758.

Peptic ulcers, Chronic, in children (ab.), H. B. Kellogg, June, 759.

Perforation of hollow viscus: roentgen aspects (ab.), E. D. Greenberger, Jan., 128.

Pericolic membranes, W. R. Cashion, Jan., 66.

Peri-esophageal abscesses: importance of early surgical interference (ab.), W. M. Hunt, Jan., 121.

Roentgen-ray examination of gastro-intestinal tract, Some uses of spot film in, J. C. Bell, April, 469.

Sarcoma of stomach, Retothel, M. J. Hubeny and P. J. Delano, March, 366.

Sprue, Non-tropical (ab.), A. L. Burgdorf and T. A. Barry, April, 514.

Stenosis in adult, Idiopathic benign hypertrophic pyloric (ab.), E. F. Kibler, Jan., 123.

Stomach, Radio-surgical treatment of carcinoma of (ab.), A. Salotti March, 389.

"Ulcer disease," Roentgen therapy of (ab.), F. Eggs, Jan., 128.

Ulcer, Duodenal, in presence of gall-bladder symptomatology, E. J. Ryan, June, 685.

Volvulus, Chronic gastric, A. C. Singleton, Jan., 53.

**GENITO-URINARY TRACT**

Tumors of urinary tract, Discussion on radiology of (ab.), W. D. Newcomb and R. Williams, April, 517.

## GLANDS

Adenopathy, Tuberculous hilar and mediastinal, in adults, B. P. Widmann, H. W. Ostrum, and J. S. Fetter, May, 521.

## GOITER

Cystadenoma of thyroid, Calcification of (ab.), C. Bunch, Feb., 256.

Hyperparathyroidism associated with osteitis fibrosa cystica (ab.), H. S. Sharpe, Jan., 124.

Hyperthyroidism, Roentgen-ray treatment of, G. E. Pfahler, Jan., 43.

Thyrotoxicism, Treatment of severe (ab.), W. O. Thompson, S. G. Taylor, R. W. McNealy, and K. A. Meyer, April, 517.

## EXOPHTHALMUS

Epiphysial dysplasia punctularis (stippled epiphyses): report of case not associated with hyperthyroidism, J. A. L. McCullough and C. G. Sutherland, Feb., 131.

## GONADS

Roentgen rays, Experimental study of effects of, on gonads of sexually mature domestic fowl, J. M. Essenberg and R. J. Karrasch, March, 258.

## GRUSKIN TEST

Cancer of gastro-intestinal tract, Early diagnosis of, and Gruskin malignancy test (ab.), S. Tashian, Jan., 116.

## GYNECOLOGY AND OBSTETRICS

Cystographic diagnosis of placenta previa (ab.), R. J. Prentiss and W. W. Tucker, April, 518.

Roentgen therapy, Indications for plesio (ab.), F. Perussia, Feb., 254.

## HEART AND VASCULAR SYSTEM

Aneurysm, Cardiac (ab.), L. H. Berk, May, 645.

Aneurysms, Intrathoracic (ab.), P. Kerley, March, 384.

Aorta, Coarctation of: report of case (ab.), E. R. Schwartz and G. M. Tice, April, 518.

Cardiac aneurysm (ab.), J. Parkinson, D. E. Bedford, and W. A. R. Thompson, March, 384.

Cardiospasm, Consideration of reflex etiology of (ab.), B. L. Bryant, April, 519.

Coarctation of aorta: report of case with rupture distal to constriction (ab.), J. T. Hecker, Jan., 124.

Complications, Vascular, of cervical ribs and first thoracic rib abnormalities (ab.), K. C. Eden, May, 645.

Congenital heart disease, Essentials in diagnosis of (ab.), T. J. Dry, Jan., 125.

Coronary thrombosis among persons less than forty years of age: study of thirty cases (ab.), W. H. Goodson, Jr., and F. A. Willius, Jr., 124.

Decompensation, cardiae, Roentgen irradiation of thyroid in treatment of (ab.), G. Pellegrini, Jan., 125.

Gastro-enterology in practice of cardiology (ab.), L. F. Bishop, Jr., April, 519.

Normal heart volume in man (ab.), G. Liljestrand, E. Lysholm, G. Nylin, and C. G. Zachrisson, May, 645.

Pulmonary artery, Tracheal and bronchial modifications during course of certain cardiopathies affecting (ab.), D. Routier and R. Heim de Balsac, April, 518.

Radiologic procedures, Value of special, in detecting cardiac enlargement in children with rheumatic heart disease (ab.), A. G. Kuttner and G. Reyersbach, May, 644.

Roentgen kymographic studies of myocardial infarction (ab.), R. Gubner and J. H. Crawford, May, 650.

Size, Body build and heart: study of 20 pairs of identical twins and 15 pairs of unrelated individuals with similar body height and weight (ab.), W. J. Comeau and P. D. White, May, 646.

Tetralogy of Fallot: correlation of clinical, roentgenologic, and postmortem findings (ab.), J. A. Pescatore, J. B. Wolfe, and V. A. Duglio, May, 644.

Thorotax, Accidental perivascular injection of: report of two cases, S. E. Ziffren, Feb., 171.

Thrombosis, Acute mesenteric arterial (ab.), W. Ogden, May, 645.

Visualization of chambers of heart, pulmonary circulation, and great blood vessels in man: practical method (ab.), G. P. Robb and I. Steinberg, April, 518.

## HIP JOINT

Deformities of acetabulum, Adolescent: investigation into nature of protrusio acetabuli (ab.), J. Gilmour, May, 646.

Dislocation of hip, Arthrography in congenital (ab.), E. Severin, Jan., 126.

Dislocation of hip, Early diagnosis of congenital (ab.), H. A. T. Fairbank, April, 520.

Dislocation of hip joint in fourteen-year-old patient, Secondary necrosis of head of femur after traumatic (ab.), Hans-Heinz Mutschler, Jan., 125.

Fractures of hip, Simpler method of internal fixation of (ab.), D. M. Stewart, April, 520.

Spontaneous osteo-arthritis of hip joint, Relationship of acetabular deformity to (ab.), J. Gilmour, April, 520.

## HOSPITALS

Costs of radiologic examinations (ed.), E. L. Jenkinson, April, 507.

Modern hospital and relation to practice of medicine, M. F. Cahal, March, 370.

Physician-hospital problem, May, 630.

Washington scene, M. F. Cahal, June, 744.

## HUMERUS

Periarthritis, Humero-scapular, X-ray treatment of (ab.), S. Mustakallio, Jan., 114.

## HYDRONEPHROSIS

Hydronephrosis resulting from ureteropelvic obstruction (ab.), L. E. Pierson and E. M. Honke, May, 648.

"Position-relief syndrome" of hydronephrosis (ab.), J. M. Berkman and J. T. Priestley, May, 649.

## HYPERTHYROIDISM. See Goiter, exophthalmic.

## HYPOGLYCEMIA. See Blood sugar, hypoglycemia.

## INDUSTRY AND OCCUPATIONS

Gases, X-ray study of effects of industrial, upon human lung, E. E. Evans, April, 411.

Silico-tuberculosis as seen in large industrial center, B. H. Douglas and E. Tompkins, April, 405.

## INFANTS

Osteopetrosis: case report, S. R. Beatty and G. Ritchie, March, 338.

Pyleography, Excretory, in infants, with help of tomograph (ab.), J. Jochims, May, 648.

## INFECTION

Bilharziasis, Radiological manifestations in (ab.), Ragheb, May, 647.

Bronchomycosis, Roentgenological aspects of, H. P. Doub, March, 267.

Carbuncles, Treatment of severe, by x-ray (ab.), F. W. O'Brien, May, 647.

Cellulitis of colon: manifestation of diverticulitis (ab.), W. A. Hailes, Jan., 120.

Ethmoiditis, Radium therapy in polypoid, G. A. Robinson, April, 449.

Lung abscesses, Bronchographic study of apparently healed (ab.), R. M. Franklin, June, 757.

Lung, Treatment of chronic suppurative disease of (ab.), T. J. Kinsella, Jan., 127.

Lymphadenitis, Mesenteric (ab.), A. Schwyzer, Jan., 123.

Mastoiditis in congenitally deformed ears (ab.), A. T. Wanamaker, April, 514.

Osteomyelitis of sphenoid bone: report of five cases with autopsy findings (ab.), H. C. Ballenger, Jan., 115.

Peri-esophageal abscesses: importance of early surgical interference (ab.), W. M. Hunt, Jan., 121.

Petrositis: roentgenologic and pathologic correlation (ab.), E. P. Fowler, Jr., and P. C. Swenson, Feb., 256.

Pneumonitis, Differential diagnosis of non-specific interstitial, F. J. Hodges, March, 276.

Roentgen therapy for painful conditions of bones and joints, H. C. Ochsner and E. B. Mumford, April, 444.

Silicosis and silicosis with infection, Modifying influences of upon healthy chest, E. P. Pendergrass and P. J. Hodges, April, 400.

Sinus disease, Evaluation of roentgen therapy in, J. R. Maxfield, Jr., and C. L. Martin, March, 300.

Sinusitis and non-specific inflammatory affections of lung, Combination of (ab.), S. R. Kjellberg, Jan., 127.

X-ray treatment of infections: review of literature and report of cases of mastoiditis and sinusitis (ab.), B. R. Dysart, May, 647.

## INFLAMMATION

Lung, Non-specific inflammatory affections of, Combination of sinusitis and (ab.), S. R. Kjellberg, Jan., 127.

Mastitis, Acute puerperal, Roentgen therapy in, J. F. Elward and S. M. Dodek, Feb., 166.

Osteoporosis, Painful spinal (ab.), P. P. Ravault, J. Graber-Duverney, and G. Léger, Jan., 114.

Radiation therapy in treatment of inflammatory lesions (ab.), F. O. Coe, Jan., 126.

Radium and/or roentgen irradiation in acute inflammatory processes, Value and limitations of (ab.), M. Ponzie, Jan., 126.

Roentgen therapy in inflammatory disease (ab.), J. N. Collins, Jan., 126.

Strawberry gall bladder, Roentgen diagnosis of, G. Levene, R. M. Lowman, and E. G. Wissing, April, 391.

## INTESTINES

Carcinoma of sigmoid colon (radiological study) ab., A. C. Singleton and M. R. Hall, Jan., 120.

Colon, Cellulitis of: manifestation of diverticulitis (ab.), W. A. Hailes, Jan., 120.

Colon, Roentgenological consideration of (ab.), R. G. Giles, Jan., 120.

Colon, Roentgenological differential diagnosis between cancer and diverticulitis of, R. Schatzki, June, 651.

Diverticula, Multiple, of jejunum, duodenum, and colon, with report of case, S. Hatchette, May, 577.

Ileitis, Importance of roentgen examination in diagnosis of regional: report of case (ab.), J. C. Root, May, 648.

Intussusception, Enteric, due to invagination of Meckel's diverticulum (ab.), M. Paul, May, 647.

Lipoma of large intestine, Submucous, with case report, W. J. Ravenel, Feb., 217.

Non-rotation in mid-gut loop in children, Two cases of (ab.), P. L. Hipsley, May, 648.

Obstruction, Roentgenogram in intestinal: its value and its limitations (ab.), P. E. Wigby and W. H. Cochran, May, 648.

Polyp of large bowel, E. L. Jenkinson, April, 489.

Volvulus, Chronic gastric, A. C. Singleton, Jan., 53.

## INTUSSUSCEPTION

Enteric intussusception due to invagination of Meckel's diverticulum (ab.), M. Paul, May, 647.

## IODINE AND IODINE COMPOUNDS

Hyperthyroidism, Roentgen-ray treatment of, G. E. Pfahler, Jan., 43 (49).

**JOINTS**

Roentgen therapy for painful conditions of bones and joints, H. C. Ochsner and E. B. Mumford, April, 444.  
Tumors of joints, Xanthomatous (ab.), D. A. de Santo and P. D. Wilson, Feb., 257.

**KIDNEY**

Adenocarcinoma of kidney, (Wilms' mixed tumor), Case of (ab.), J. Agerholm-Christensen, May, 649.  
Hydronephrosis, "Position-relief syndrome" of (ab.), J. M. Berkman and J. T. Priestley, May, 649.  
Hydronephrosis resulting from ureteropelvic obstruction (ab.), L. E. Pierson and E. M. Honke, May, 648.  
Neoplasms of horseshoe kidney (ab.), A. Aspinall, May, 649.  
Pyelography in infants, Excretory, with help of tomograph (ab.), J. Jochims, May, 648.  
Radiobiologic observations (ab.), G. Dell' Acqua, April, 514.  
Tumors of renal pelvis: report of case (ab.), F. C. Schlumberger, May, 649.  
Wilms' tumor (adenomyosarcoma) of kidney in children: report of case (ab.), C. C. Higgins and F. L. Shively, Jr., May, 649.

**KNEE JOINT**

Injuries involving knee joint, Common (ab.), L. H. Edmunds, May, 650.  
Trauma, Air in knee after, M. A. Walker and L. G. Allen, Feb., 239.  
X-ray technic in studying knee joints, Improved (ab.), E. C. Holmblad, May, 650.

**KYMOGRAPHY**

Diagnostic roentgenology (ab.), R. Schatzki, Feb., 254.  
Myocardial infarction, Roentgen kymographic studies of (ab.), R. Gubner and J. H. Crawford, May, 650.

**LARYNX**

Atheroma, Paralaryngeal (ab.), A. Schwwyzer, Feb., 257.  
Cancer of larynx, Present conception of treatment of, H. Coutard, Feb., 136.  
Cancer of larynx, Surgical treatment of, J. H. McCready, Feb., 146.  
Cancer of larynx, Treatment of, with comparison of results obtained by surgery and radiation therapy (ab.), M. F. Arbuckle, June, 756.  
Laryngoele (ab.), J. Blewett, June, 755.  
Lesions in and about larynx, Roentgen consideration of (ab.), T. J. Wachowski, June, 755.  
Lesions in and about the larynx, Roentgen consideration of: diagnostic aspects (ab.), A. Hartung, June, 755.  
X-ray examination of larynx and pharynx (ab.), R. P. O'Bannon, June, 755.

**LEUKEMIA**

Lymphoma, Symptomatology of: its endless variety (ab.), J. H. Means, June, 756.  
Myelogenous leukemia, Hematologic diagnosis and roentgenologic treatment of, W. C. Popp and C. H. Watkins, June, 663.  
Roentgen therapy of leukemia with variable filters (ab.), A. Possati, June, 756.

**LIP, cancer**

Roentgen therapy of skin and lip cancer (ab.), J. Horvath, Jan., 117.

**LIPOIDS**

Pneumonia, Lipoid: report of case (ab.), A. M. Young, H. S. Applebaum, and P. B. Wasserman, June, 759.  
Pneumonia, Lipoid-cell: adult type (ab.), H. M. Thomas, Jr., and W. M. Snell, Jr., June, 759.

**LIPOMA. See Tumors.****LIVER**

Hepatosplenography, Should use of thorium dioxide in, be abandoned? Ab., E. Benassi, March, 390.

**LUNGS**

Aneurysms, Intrathoracic (ab.), P. Kerley, March, 384.  
Besnier-Boeck's disease, Familial occurrence of (ab.), M. Dressler, Feb., 257.  
Bronchographic study of apparently healed lung abscesses (ab.), R. M. Franklin, June, 757.  
Bronchomycosis, Roentgenological aspects of, H. P. Doub, March, 267.  
Calcification of cold abscess of anterior thoracic wall: rare complication in tuberculous pleural effusion (ab.), G. Cascelli, Jan., 119.  
Carcinoma, Cavitary bronchogenic, H. Hauser and S. E. Wolpaw, June, 698.  
Carcinoma of lung, Primary (ab.), J. B. Flick and J. T. Bauer, Jan., 117.  
Chest surveys, Miniature films in, H. E. Potter, Jan., 62.  
Congenital cystic malformation of lungs, formerly known as "vesicular" or "hypertrophic pulmonary emphysema," recently described as "congenital cystic disease of lungs," with report of case, C. T. Sharpe, June, 692.  
Cyst of lung simulating high-pressure pneumothorax, Single large (ab.), E. B. Hudson, Jan., 127.  
Fibrolipoma of bronchus: report of case (ab.), T. H. McGlade, Feb., 258.  
Fissure, horizontal, Significance of roentgen visibility of, P. T. Kries, March, 351.  
Foreign bodies long retained in lower airways, Late results of (ab.), E. F. Butler, N. S. Lincoln, J. K. Deegan, and R. Horton, April, 515.

Gases upon human lung, X-ray study of effects of industrial, E. E. Evans, April, 411.

Hydatid cysts in both lungs (ab.), H. K. Christie, June, 757.  
Infiltrations, Transitory lung, associated with eosinophilia, (Löffler's syndrome): report of case (ab.), D. C. W. Smith and A. J. Alexander, June, 757.

Inflammatory affections of lung, Combination of sinusitis and non-specific (ab.), S. R. Kjellberg, Jan., 127.

Metastases, Regression of pulmonary, from mammary carcinoma following inactivation of ovaries by irradiation: report of two cases, H. B. Hunt, Feb., 235.

Pneumonia, Lipoid: report of case (ab.), A. M. Young, H. S. Applebaum, and P. B. Wasserman, June, 759.

Pneumonia, Lipoid-cell: adult type (ab.), H. M. Thomas, Jr., and W. F. Rienhoff, Jr., June, 759.

Pneumonitis, Differential diagnosis of non-specific interstitial, F. J. Hodges, March, 276.

Pneumothorax, Bilateral spontaneous, following asthmatic emphysema (ab.), J. Ribeiro Carvalho and C. da Silva Lacaz, Feb., 254.

Pulmonary artery, Tracheal and bronchial modifications during course of certain cardiopathies affecting (ab.), D. Routier and R. Heim de Balsac, April, 518.

Pulmonary involvement in lymphoblastomas: special reference to roentgen aspects, A. Hartung, March, 311.

Pulmonary tuberculosis, Incidence and significance of apical lesions in: pathologic and roentgenologic study, E. A. Addington and B. R. Kirklin, March, 327.

Radiologist's place in diagnosis of lung pathology (ed.), F. B. Bogart, June, 750.

Sarcoma of lung with brain metastasis, Primary (ab.), R. C. Ellis, Jan., 126.

Silicosis and silicosis with infection, Modifying influences of, upon healthy chest, E. P. Pendergrass and P. J. Hodes, April, 400.

Silico-tuberculosis as seen in large industrial center, B. H. Douglas and E. Tompkins, April, 405.

Suppurative disease of lung, Treatment of chronic (ab.), T. T. Kinsella, Jan., 127.

Thoracoplasty, Late results of (ab.), H. A. Carlson, H. A. Burns, and O. W. Wangensteen, Jan., 127.

Tuberculosis, Lower lobe, M. J. Sokoloff, May, 589.

Tuberculosis, Primary complex of childhood: analysis of x-ray examinations of 857 cases with positive Mantoux reactions (ab.), F. H. Tyner, Feb., 256.

Tuberculosis, Roentgenographic prognosis of pulmonary, J. Gershon Cohen and J. T. Farrell, Jr., March, 292.

Tuberculous hilar and mediastinal adenopathy in adults, B. P. Widmann, H. W. Ostrum, and J. S. Fetter, May, 521.

X-ray surveys, Group, in apparently healthy individuals, B. Robins and D. E. Ehrlich, May, 595.

**LYMPH NODES**

Adenopathy in adults, Tuberculous hilar and mediastinal, B. P. Widmann, H. W. Ostrum, and J. S. Fetter, May, 521.

Lymphadenitis, Mesenteric (ab.), A. Schwwyzer, Jan., 123.

Metastatic cancer in lymph nodes of neck (ab.), H. G. F. Edwards, March, 389.

**LYMPHATIC SYSTEM**

Lymphoblastomas, Pulmonary involvement in: special reference to roentgen aspects, A. Hartung, March, 311.

Treatment of lymphatic fields in buccal carcinoma, Surgical (ab.), F. J. Morris, Jan., 129.

**LYMPHOBLASTOMA. See Lymphogranuloma.****LYMPHOGRANULOMA**

Pulmonary involvement in lymphoblastomas: special reference to roentgen aspects, A. Hartung, March, 311.

**MASTITIS**

Acute puerperal mastitis, Roentgen therapy in, J. F. Edward and S. M. Dodek, Feb., 166.

**MASTOIDITIS**

Mastoiditis in congenitally deformed ears (ab.), A. T. Wanamaker, April, 514.

X-ray treatment of infections: review of literature and report of cases of mastoiditis and sinusitis (ab.), B. R. Darsy, May, 647.

**MEDICINE, practice of**

Hospital, Modern, and relation to practice of medicine, M. F. Cahal, March, 370.

Malpractice, Contributory negligence as it applies to medical, I. S. Trostler, Jan., 76.

Physician-hospital problem, May, 630.

Washington scene, M. F. Cahal, June, 744.

**MEMBRANES**

Pericolic membrane, W. R. Cashion, Jan., 66.

**MENOPAUSE, artificial**

Castration of female by irradiation: results in 334 patients, W. S. Peck and J. T. McGreer with N. R. Kretschmar and W. S. Brown, Feb., 176.

**METASTASIS**

Bone, Metastasis to, from carcinoma of gastro-intestinal tract (ab.), R. K. Ghormley and J. E. Valls, June, 757.

Skeletal metastasis in cancer (ab.), C. F. Geschickter and I. H. Maseritz, June, 757.

Skeletal metastases in mammary carcinoma, Radiologic treatment of (ab.), H. B. Wulff, Jan., 116.

**MOUTH**

Carcinoma, Treatment of buccal (ab.), O. Chance, Jan., 118.

**MUSCLES**

Skeletal muscles, Is there effect of x-rays on, if doses applied do not exceed skin tolerance? Ab., H. Bade, Jan., 113.

**NECK**

Cancer in lymph nodes of neck, Metastatic (ab.), H. G. F. Edwards, March, 389.

**NOSE**

Nasal teeth: report of case (ab.), L. R. Marshall, April, 516.

**OBITUARY**

Baker, Morgan D., March, 382.  
 Friedlaender, Bernhard, March, 382.  
 Granger, Amédée, L. J., Menville, Jan., 108.  
 Groover, Thomas A., May, 630, 640.  
 Groover, Thomas Allen, A. C. Christie, June, 752.  
 Heacock, Edward M., 640.  
 Johns, Erwin W., May, 640.  
 Larson, William W., Jan., 107.  
 McDeed, Winfield G., April, 511.  
 Richtmyer, F. K., March, 382.  
 Ross, William L., Jan., 107.  
 Ruggles, Howard Edwin (1886-1939), L. Bryan, May, 638.  
 Wilson, Milo, March, 382.

**OSTEITIS DEFORMANS**

Fracture of pelvis and wrist, Traumatic, complicated by osteitis deformans (Paget's disease), ab., H. H. Huber and A. Yaffe, April, 516.

**OSTEOMYELITIS**

Acute osteomyelitis of vertebral body following compression fracture (ab.), R. F. Atsatt, Jan., 122.  
 Sphenoid bone, Osteomyelitis of, report of five cases with autopsy findings (ab.), H. C. Ballenger, Jan., 115.

**OVARY**

Castration of female by irradiation: results in 334 patients, W. S. Peck and J. T. McGreer with N. S. Kretschmar and W. S. Brown, Feb., 176.  
 Inactivation of ovaries by irradiation. Regression of pulmonary metastases from mammary carcinoma following: report of two cases, H. B. Hunt, Feb., 235.

**PAGET'S DISEASE**

of bone. *See* Osteitis deformans.

**PALATE**

Carcinoma of uvula. Primary squamous-cell: report of two cases (ab.), J. M. Robb and M. W. Michels, March, 389.

**PARATHYROID**

Hyperplasia. Metastatic bone carcinomatosis associated with parathyroid, and with symptoms of hyperparathyroidism: with blood calcium and phosphorus studies before and after extirpation of hyperplastic parathyroid gland (ab.), S. Ben-Asher, March, 388.

**PAROTID GLAND, tumors**

Non-malignant vascular tumors of parotid region and their treatment by means of radium molds (ab.), A. Pagan, Jan., 130.

**PELVIMETRY**

Measurements, Stereoscopic, of distances in female pelvis and on fetal skull (ab.), B. Westergaard, June, 757.

Pelviroadiography and clinical pelvimetry: comparative values in prognosis and outcome of labor (ab.), E. M. Rappaport and S. J. Scadron, June, 758.

**PELVIS**

Fracture of pelvis and wrist, Traumatic, complicated by osteitis deformans (Paget's disease), ab., H. H. Huber and A. Yaffe, April, 516.

Measurements, Stereoscopic, of distances in female pelvis and on fetal skull (ab.), B. Westergaard, June, 757.

**PEPTIC ULCER**

Cause of peptic ulcer syndrome, Frequent non-ulcerous (ab.), L. M. Morrison, W. A. Swalm, and C. L. Jackson, June, 758.

Chronic peptic ulcers in children (ab.), H. B. Kellogg, June, 759.

Duodenal ulcer, Anterior pituitary tumor associated with cachexia, hypoglycemia, and (ab.), M. P. Foley, A. M. Snell, and W. M. Craig, June, 759.

Duodenal ulcers located at distal portion of cap, and ulcers of duodenum beyond extrabulbar cap (ab.), L. Muchi and R. Martinet, Jan., 128.

Gastritis, Ulcerative, and residual lesions (ab.), H. E. Robertson, June, 758.

Perforation of hollow viscera: roentgen aspects (ab.), E. D. Greenberger, Jan., 128.

Roentgen therapy of "ulcer disease" (ab.), F. Eggs, Jan., 128.

**PERIODICALS**

New publication (ann.), May, 638.

**PHARYNX**

Cancer, Variations in radiation technic and biologic effects in treatment of pharyngeal, H. E. Martin, Feb., 149.

X-ray examination of larynx and pharynx (ab.), R. P. O'Bannon, June, 755.

**PITUITARY BODY**

Hyperthyroidism, Roentgen-ray treatment of, G. E. Pfahler, Jan., 43 (48).

Roentgen therapy of pituitary tumor with regeneration of sella, with growth after age eighteen, H. Gray and R. R. Newell, Jan., 95.

Tumor, Anterior pituitary, associated with cachexia, hypoglycemia, and duodenal ulcer (ab.), M. P. Foley, A. M. Snell, and W. M. Craig, June, 759.

**PLACENTA PREVIA**

Cystographic diagnosis of placenta previa (ab.), R. J. Prentiss and W. W. Tucker, April, 518.

**PLANIGRAPHY**

Serial planeography (serioscopy) and serial planigraphy: critical analysis, J. Kaufman and H. Koster, May, 626.

Simplified planigraphy, D. Wheeler and E. W. Spencer, April, 499.

**PNEUMONIA**

Interstitial pneumonitis, Differential diagnosis of non-specific, F. J. Hodges, March, 276.

Lipoid-cell pneumonia: adult type (ab.), H. M. Thomas, Jr., and W. F. Rienhoff, Jr., June, 759.

Lipoid pneumonia: report of case (ab.), A. M. Young, H. S. Applebaum, and P. B. Wasserman, June, 759.

**PNEUMOTHORAX**

High-pressure pneumothorax, Single large cyst of lung simulating (ab.), E. B. Hudson, Jan., 127.

Spontaneous pneumothorax, Bilateral, following asthmatic emphysema (ab.), J. Ribeiro Carvalho and C. da Silva Lacaz, Feb., 254.

**POISONS AND POISONING**

Fluorine poisoning, Chronic, seen from roentgenological standpoint (ab.), P. F. Moller, April, 514.

**POLYCYTHEMIA**

Roentgen therapy of polycythemia (ab.), L. Siciliano, Jan., 129.

Treatment of polycythemia by means of general body exposure with roentgen rays (ab.), O. Simon, Jan., 128.

**PREGNANCY**

Diagnosis of fetus papyraceous, Antepartum roentgenographic, A. C. Johnston and M. C. Sosman, March, 261.

Heartburn of pregnancy, Intractable, J. R. Evans and J. S. Bouslog, May, 530.

Pelviroadiography and clinical pelvimetry: comparative values in prognosis and outcome of labor (ab.), E. M. Rappaport and S. J. Scadron, June, 758.

**PROSTATE**

Cancer, Clinical aspects of supervoltage roentgen therapy in, W. E. Costolow, Jan., 28 (30).

**PYEOGRAPHY**

Excretory pyelography in infants, with help of tomograph (ab.), J. Jochims, May, 648.

**RADIATION**

Cancer of breast, Irradiation in treatment of (ab.), U. V. Portmann, March, 388.

Cancer of cervix uteri, Survey of 293 cases of, 223 of which were treated from 1916 to 1933, by radiation therapy at Grace Hospital, Detroit (ab.), R. H. Stevens and A. K. Payne, Feb., 259.

Cancer of larynx, Treatment of, with comparison of results obtained by surgery and radiation therapy (ab.), M. F. Arbruckle, June, 756.

Cancer, Variations in radiation technic and biologic effects in treatment of pharyngeal, H. E. Martin, Feb., 149.

Carcinoma, buccal, Treatment of (ab.), O. Chance, Jan., 118.

Carcinoma of rectum, Treatment of, by electrocoagulation and radiation, in selected cases, H. I. Teperson, May, 610.

Castration of female by irradiation: results in 334 patients, W. S. Peck and J. T. McGreer with N. R. Kretschmar and W. E. Brown, Feb., 176.

Cutaneous cancer and parent tissue, Comparative studies of effect of radiation after simultaneous irradiation of (ab.), Paltrimeri and B. Galavotti, Jan., 117.

*Drosophila* pupa, Responses of, to x-rays, P. S. Henshaw and I. M. Golomb, June, 721.

Electron diffraction studies of thin films. I.—Structure of very thin films (ab.), L. H. Germer, June, 760.

Electrons, Principles of new therapy with high speed: preliminary report, R. Schindler, Feb., 222.

Generator, One-million volt, for producing radio-active substances (ab.), E. P. Vanoni, Jan., 114.

Hyperthyroidism, Roentgen-ray treatment of, G. E. Pfahler, Jan., 43.

Measurement of high voltage radiations, Biologic, C. Packard, Jan., 17.

Measurements, First, with Spanish standard for absolute determination of international roentgen unit, H. T. Plasencia, Jan., 82.

Milliammeter inaccuracy caused by control cabinet, M. M. D. Williams, June, 691.

Physical factors influencing difference between 200 and 500 kilovolt radiation, K. E. Corrigan, Jan., 8.

"Quality" of high voltage radiations. Part II.—"Quality" within scattering medium (ab.), J. R. Clarkson and W. V. Mayneord, June, 760.

Radiation biology, Some unsolved problems of (ab.), P. del Buono, March, 386.

Skeletal metastases in mammary carcinoma, Radiologic treatment of (ab.), H. B. Wulff, Jan., 116.

Supervoltage roentgen therapy, Differences between 200 kilovolt and, R. Dresser, J. C. Rude, and B. J. Cosman, Jan., 13.

Teleradium and supervoltage x-ray machine, Therapeutic and economic indications for, C. D. Lucas, Feb., 193.

Tumors, Brief observation on erythrocyte sedimentation in relation to irradiated malignant, M. F. Madrazo, June, 668.

Tumors of bone (ab.), C. C. Simmons, March, 388.

Uterine cervix, Biopsy of: end-results of 100 consecutive interventions (ab.), L. E. Phaneuf and M. O. Belson, Feb., 260.

Wave length dependence of radiobiological reaction. Further studies with seedlings on question of (ab.), P. S. Henshaw and D. S. Francis, March, 386.

Wave length, Influence of, on biological effectiveness of radiation (ab.), H. G. Crabtree and L. H. Gray, March, 385.

**effects**

Biologic effect of roentgen and gamma rays on living matter, Experimental studies and theoretical deductions regarding hypothesis of (ab.), G. G. Palmieri and A. Valenti, March, 386.

Biologic skin effects, Late sequelae of divergent, produced by roentgen irradiation with varying voltages, E. R. Witwer and T. Leucutia, Jan., 24.

Functional factors in radiation therapy (ab.), M. Bertolotti, March, 386.

**RADIO-ACTIVITY**

Electrons, Principles of new therapy with high speed: preliminary report, R. Schindler, Feb., 222.

Nuclear physics, Recent advances in, E. U. Condon, May, 581.

**RADIOLOGICAL SOCIETY OF NORTH AMERICA**

1940 Annual Meeting, March, 378; Report of Annual Meeting, Jan., 106.

**RADIOLOGIST**

Future of radiologist (ed.), B. H. Nichols, May, 636.

Place in diagnosis of lung pathology, Radiologist's (ed.), F. B. Bogart, June, 750.

**RADIOLOGY, practice of**

Costs of radiologic examinations (ed.), E. L. Jenkinson, April, 507.

Is practice of roentgenology above criticism? Ed., A. W. George, March, 376.

Negligence as it applies to medical malpractice, Contributor, J. S. Trostler, Jan., 76.

Physician-hospital problem, May, 630.

Points of interest, Feb., 242.

Presidential address, R. G. Taylor (ed.), Feb., 247.

**RADIUM**

Cancer in lymph nodes of neck, Metastatic (ab.), H. G. F. Edwards, March, 389.

Cancer of cervix of uterus (ab.), D. B. Ludwig, Jan., 119.

Cancer, Variations in radiation technic and biologic effects in treatment of pharyngeal cancer, H. E. Martin, Feb., 149.

Carcinoma of cervix, Individualized radium therapy of (ab.), H. Reichenmiller, June, 760.

Carcinoma of cervix, Report of cases of, treated in 1932 and 1933, at Cancer Institute in Strassburg (ab.), A. Gunsett, Jan., 118.

Carcinoma of lung, Primary (ab.), J. B. Flick and J. T. Bauer, Jan., 117.

Carcinoma of rectum and anus, What can one expect from radiation in? Ab., O. N. Meland, March, 389.

Carcinoma of rectum, Treatment of, by electrocoagulation and radiation, in selected cases, H. I. Teperson, May, 610.

Carcinoma of uterus, Results in treatment of (ab.), H. Goekce, Jan., 118.

Carcinoma of vulvula, Treatment of (ab.), E. Wessely, March, 389.

Carcinoma, Surgical treatment of lymphatic fields in buccal (ab.), F. J. Morrin, Jan., 129.

Carcinomas of bladder, New approach to treatment of certain, L. S. Goin and E. F. Hoffman, Feb., 205 (206).

Castration of female by irradiation: results in 334 patients (disc.), W. S. Peck and J. T. McGreer with N. R. Kretzschmar with W. S. Brown, Feb., 176 (184).

Cutaneous cancer and parent tissue, Comparative studies of effect of radiation after simultaneous irradiation of (ab.), Paltrinieri and B. Galavotti, Jan., 117.

Distribution of radiation in per vaginal roentgen therapy, M. C. Morrison, April, 451.

Ethmoiditis, Radium therapy in polypoid, G. A. Robinson, April, 449.

Gamma-ray and neutron preparations, Determination of effective dose of combined (ab.), K. G. Zimmer, H. J. Born, and P. M. Wolf, Jan., 129.

Gamma-ray therapy in surface application of radium, New technic and dosage system for (ab.), M. Strandqvist, Jan., 129.

Hemangiomas, Radium treatment of cutaneous cavernous, using surface applications of radium tubes in glass capsules (ab.), M. Strandqvist, Jan., 129.

Inflammatory processes, Value and limitations of radium and/or roentgen irradiation in acute (ab.), M. Ponzi, Jan., 126.

"Lambda" in radiotherapy, Factor (ab.), M. Lapenna, Jan., 113.

Measurements, First, with Spanish standard for absolute determination of roentgen unit, H. T. Plasencia, Jan., 82.

Protection, Radium: measurements of exposure to gamma rays, R. E. Fricke and M. M. D. Williams, May, 560.

Sterilization by irradiation, Indications for (ab.), A. Mayer, April, 518.

Stomach, Radio-surgical treatment of carcinoma of (ab.), A. Salotti, March, 389.

Tumors of parotid region and their treatment by means of radium molds, Non-malignant vascular (ab.), A. Pagani, Jan., 130.

Tumors of salivary glands: illustrative cases, Pathogenesis and radium therapy of mixed, I. Levin, Jan., 69.

Use of radium in maintaining patent frontonasal opening in external operations of fronto-ethmoid group of sinuses: preliminary report (ab.), H. L. Williams and R. E. Fricke, June, 760.

**RECTUM**

Carcinoma of rectum and anus, What can one expect from radiation in? Ab., O. N. Meland, March, 389.

Carcinoma of rectum, Treatment of, by electrocoagulation and radiation, in selected cases, H. I. Teperson, May, 610.

Two years' experience with 400 kv, constant potential deep therapy, D. Steel, Feb., 187 (189).

**RESPIRATORY TRACT**

Carcinoma of upper respiratory and intestinal tracts, Results of protracted fractional roentgen therapy of, from 1930 to 1938 (ab.), R. Glauner, S. Teufel, and A. Daigger, Jan., 119.

**RIBS**

Cervical ribs and first thoracic rib abnormalities, Vascular complications of (ab.), K. C. Eden, May, 645.

**ROENTGEN RAYS, biologic effects**

Experimental studies and theoretical deductions regarding hypothesis of biologic effect of roentgen and gamma rays on living matter (ab.), G. G. Palmieri and A. Valenti, March, 386.

Gonads of sexually mature domestic fowl, Experimental study of effects of roentgen rays on, J. M. Essenberg and R. J. Karrasch, March, 358.

Skin effects produced by roentgen irradiation with varying voltages, Late sequelae of divergent biologic, E. R. Witwer and T. Leucutia, Jan., 24.

*Tubifex tubifex*, Differential action of x-rays on anterior and posterior regions of, H. Branson and H. Kersten, Feb., 200.

Wave length, Influence of, on biological effectiveness of radiation (ab.), H. G. Crabtree and L. H. Gray, March, 385.

Years growth: possible test organism for x-radiation, O. W. Richards, March, 317.

**costs**

Examinations, Costs of radiologic (ed.), E. L. Jenkinson, April, 507.

**effects**

Bone marrow *in vivo* and *in vitro*, Effects of roentgen rays on (ab.), A. Gregori, Jan., 113.

Muscles, Is there effect of x-rays on skeletal, if doses applied do not exceed skin tolerance? Ab., H. Bade, Jan., 113.

Sarcoma *in vivo* and *in vitro*, Effect of roentgen rays on Galliera (ab.), G. Toniolo, Jan., 113.

**examination**

Acetabular deformity, Relationship of, to spontaneous osteo-arthritis of hip joint (ab.), J. Gilmour, April, 520.

Acetabulum, Adolescent deformities of: investigation into nature of protrusio acetabuli (ab.), J. Gilmour, May, 646.

Acoustic nerve tumors, Simple x-ray technic easily interpreted, for diagnosis of (ab.), J. Dereux and H. Monnier, Feb., 258.

Alimentary tract, Experiences with compression device in examinations of, R. Golden and P. C. Swenson, April, 457.

Aneurysm, Cardiac (ab.), J. Parkinson, D. E. Bedford, and W. A. R. Thompson, March, 384.

Aneurysm, Cardiac (ab.), L. H. Berk, May, 645.

Aneurysms, Intrathoracic (ab.), P. Kerley, March, 384.

Aorta, Coarctation of: report of case (ab.), E. R. Schwartz and G. M. Tie, April, 518.

Appendiceal stump following appendectomy, Protrusion of, M. Feldman, May, 571.

Appendiceal stumps, Invaginated, roentgenologically simulating polypoid neoplasms, H. M. Weber and C. A. Good, Jr., April, 440.

"Basilar impression," Diagnosis of, A. Schüller, Feb., 214.

Bezoars, Shellac, H. H. Inlow, May, 618.

Bilharzias, Radiological manifestations in (ab.), Ragheb, May, 647.

Biliary passages, Roentgen diagnosis of (ab.), K. A. Zwicker, Jan., 115.

Bladder carcinomas, New approach to treatment of certain, L. S. Goin and E. F. Hoffman, Feb., 205.

Bone carcinomatosis, Metastatic, associated with parathyroid hyperplasia and with symptoms of hyperparathyroidism, with blood calcium and phosphorus studies before and after extirpation of hyperplastic parathyroid gland (ab.), S. Ben-Asher, March, 388.

Bone, Tumors of (ab.), C. C. Simmons, March, 388.

Bowel, Polyp of large, E. L. Jenkinson, April, 489.

Bronchomycosis, Roentgenological aspects of, H. P. Doub, March, 267.

Bronchus, Fibroloma of: report of case (ab.), T. H. McGlade, Feb., 258.

Calcification of cold abscess of anterior thoracic wall: rare complication in tuberculous pleural effusion (ab.), G. Cascelli, Jan., 119.

Cancer of stomach (Carman Lecture), W. C. MacCarty, Jan., 1.

Carcinoma, Cavitary bronchogenic, H. Hauser and S. E. Wolpaw, June, 698.

## ROENTGEN RAYS, examination—Continued

Carcinoma, Radiologic treatment of skeletal metastases in mammary (ab.), H. B. Wulff, Jan., 116.

Cardiac enlargement, Value of special radiologic procedures in detecting, in children with rheumatic heart disease (ab.), A. G. Kuttner and G. Reversbach, May, 644.

Cervical ribs and first thoracic rib abnormalities, Vascular complications of (ab.), K. C. Eden, May, 645.

Chambers of heart, pulmonary circulation, and great blood vessels in man, Visualization of: practical method (ab.), G. P. Robb and I. Steinberg, April, 518.

Chest film, Miniature x-ray, H. E. Potter, B. H. Douglas, and C. C. Birkel, March, 283.

Chest surveys, Miniature films in, H. E. Potter, Jan., 62.

Cholecystography in its fifteenth year (ab.), B. R. Kirklin, April, 516.

Cholecystography: optimum voltage: tetrabrom- versus tetradiodophenolphthalein, R. R. Newell and R. Briggs, May, 568.

Cholecystography, Some practical considerations of, from roentgenologic aspect (ab.), E. P. Pendergrass, March, 390.

Chondroplasia, Hereditary deforming: report of ten cases in one family (ab.), C. M. Crane, March, 386.

Chondro-epiphysitis, Endocrine implication of juvenile (ab.), R. L. Schaefer, F. L. Strickroot, and F. H. Purcell, March, 387.

Coarctation of aorta: report of case with rupture distal to constriction (ab.), J. T. Hecker, Jan., 124.

Colon, Carcinoma of sigmoid (radiological study) ab., A. C. Singleton and M. R. Hall, Jan., 120.

Colon, Cellulitis of: manifestation of diverticulitis (ab.), W. A. Hailes, Jan., 120.

Colon, Roentgenological consideration of (ab.), R. G. Giles, Jan., 120.

Colon, Roentgenological differential diagnosis between cancer and diverticulitis of, R. Schatzki, June, 651.

Costs of radiologic examinations (ed.), E. L. Jenkinson, April, 507.

Cranial defects, Fate of, secondary to fracture and surgery: follow-up study of 150 patients, M. A. Glaser and E. S. Blaine, June, 671.

Diagnostic roentgenology (ab.), R. Schatzki, Feb., 254.

Drain, Lost, and roentgen-ray identification (ab.), H. S. Crossen and W. G. Scott, Jan., 114.

Duodenal ulcers located at distal portion of cap, and ulcers of duodenum beyond extrabulbar cap (ab.), L. Mucci and R. Martinet, Jan., 128.

Duodeno-colic fistula, Benign, with report of two cases, C. N. McPeak, March, 343.

Dysplasia, Punctate epiphyseal, occurring in two members of same family (ab.), D. G. Maitland, March, 387.

Epiphyseal dysplasia punctularis (stippled epiphyses): report of case not associated with hyperthyroidism, J. A. L. McCullough and C. G. Sutherland, Feb., 131.

Esophagus, Achalasia of (ab.), R. Flynn, Jan., 121.

Extrahepatic biliary ducts, Experimental researches on radiological anatomy of (ab.), P. L. Cova and G. Tempini, Jan., 115.

Femur, Secondary necrosis of head of, after traumatic dislocation of hip joint in fourteen-year-old patient (ab.), Hans-Heinz Mutschler, Jan., 125.

Fetus papryaceous, Antepartum roentgenographic diagnosis of, A. C. Johnston and M. C. Sosman, March, 261.

Fistulae, Roentgenologic demonstration of, between biliary system and intestinal tract (ab.), R. du Mesnil de Rochemont, Jan., 122.

Fluorescence, Roentgen-ray, and biology (ab.), M. Lenzi, Jan., 114.

Fluorine poisoning, Chronic, seen from roentgenological standpoint (ab.), P. F. Moller, April, 514.

Foreign bodies, Simple radiographic methods for localization of (ab.), J. F. Brailsford, April, 515.

Fracture, Acute osteomyelitis of vertebral body following compression (ab.), R. F. Atsatt, Jan., 122.

Fracture of neck of femur, Closed operation for intracapsular: final results in recent and old cases (ab.), T. King, April, 516.

Fracture of pelvis and wrist, Traumatic, complicated by osteitis deformans (Paget's disease) ab., H. H. Huber and A. Yaffe, April, 516.

Fracture of petrous pyramid, Transverse (ab.), W. E. Grove, April, 516.

Fractures in region of ankle joint (ab.), W. D. Griesemer, May, 644.

Fractures of carpal navicular: importance of special roentgenography (ab.), A. S. Rothberg, May, 644.

Fractures of femoral neck, New device for facilitating the taking of roentgenograms when performing extra-articular method of internal fixation in (ab.), J. I. Sloat and L. T. Peterson, May, 644.

Fractures of hip, Simpler method of internal fixation of (ab.), D. M. Stewart, April, 520.

Fractures of neck of femur, Fluoroscopic technic for nailing (ab.), L. V. Littig, Jan., 122.

Fractures of neck of femur: review of 33 consecutive cases (ab.), S. T. Irwin, Jan., 122.

Gall bladder and bile ducts, Roentgenologic study of (ab.), W. M. Barron, Jan., 123.

Gall-bladder disease in patients under 30 years of age (ab.), C. Bearse, April, 517.

Gall-bladder examinations, Value of upright position in, A. Ettinger, April, 481.

Gall bladder, Roentgen diagnosis of strawberry, G. Levene, R. M. Lowman, and E. G. Wissing, April, 391.

Gallstones: ten years' surgical experience (ab.), L. Barrington-Ward, Jan., 123.

Gastritis, Ulcerative, and residual lesions (ab.), H. E. Robertson, June, 758.

Gastro-intestinal tract, Roentgen diagnosis of diseases of ileocecal region of (ab.), J. Jellen, Jan., 124.

Gastro-intestinal tract, Some uses of spot film in roentgen-ray examination of, J. C. Bell, April, 469.

Group x-ray surveys in apparently healthy individuals, A. B. Robins and D. E. Ehrlich, May, 595.

Heart disease, Essentials in diagnosis of congenital (ab.), T. J. Dry, Jan., 125.

Heart size, Body build and: study of 20 pairs of identical twins and 15 pairs of unrelated individuals with similar body height and weight (ab.), W. J. Comeau and P. D. White, May, 646.

Heart, volume in man, Normal (ab.), G. Liljestrand, E. Lysholm, G. Nylin, and C. G. Zachrisson, May, 645.

Hepatosplenography, Should use of thorium dioxide in, be abandoned? Ab., E. Benassi, March, 390.

Hip, Arthrography in congenital dislocation of (ab.), E. Severin, Jan., 126.

Hip, Early diagnosis of congenital dislocation of (ab.), H. A. T. Fairbank, April, 520.

Horizontal fissure, Significance of roentgen visibility of, P. T. Knies, March, 351.

Hydronephrosis, "Position-relief syndrome" of (ab.), J. M. Berkman and J. T. Priestley, May, 649.

Hydronephrosis resulting from ureteropelvic obstruction (ab.), L. E. Pierson and E. M. Honke, May, 648.

Ileitis, Importance of roentgen examination in diagnosis of regional: report of case, J. C. Root, May, 648.

Ileocecal region, A. Oppenheimer, May, 545.

Inframolar adamantinoma (ab.), W. A. D. Drummond, Feb., 257.

Intestinal obstruction, Roentgenogram in: its value and its limitations (ab.), P. E. Wigby and W. H. Cochran, May, 648.

Intestine, Submucous lipoma of large, with case report, W. J. Ravenel, Feb., 217.

Intussusception, Enteric due to invagination of Meckel's diverticulum (ab.), M. Paul, May, 647.

Jejunum, duodenum, and colon, Multiple diverticula of, with report of case, S. Hatchette, May, 577.

Joints, Xanthomatous tumors of (ab.), D. A. de Santo and P. D. Wilson, Feb., 257.

Kidney, Case of adenosarcoma of (Wilms' mixed tumor) ab., J. Agerholm-Christensen, May, 649.

Kidney, Neoplasm of horseshoe (ab.), A. Aspinall, May, 649.

Knee after trauma, Air in, M. A. Walker and L. G. Allen, Feb., 239.

Knee joint, Common injuries involving (ab.), L. H. Edmunds, May, 650.

Knee joints, Improved x-ray technic in studying (ab.), E. C. Holmlund, May, 650.

Kymographic studies of myocardial infarction, Roentgen (ab.), R. Gubner and J. H. Crawford, May, 650.

Laryngocoele (ab.), J. Blewett, June, 755.

Larynx and pharynx, X-ray examination of (ab.), R. P. O'Bannon, June, 755.

Larynx, Roentgen consideration of lesions in and about: diagnostic aspects (ab.), A. Hartung, June, 755.

Lung abscesses, Bronchographic study of apparently healed (ab.), R. M. Franklin, June, 757.

Lung, Combination of sinusitis and non-specific inflammatory affections of (ab.), S. R. Kjellberg, Jan., 127.

Lungs, Hydatid cysts of both (ab.), H. K. Christie, June, 757.

Lung pathology, Radiologist's place in diagnosis of (ed.), F. B. Bogart, June, 750.

Lung, Single large cyst of, simulating high-pressure pneumothorax (ab.), E. B. Hudson, Jan., 127.

Lung, Treatment of chronic suppurative disease of (ab.), T. J. Kinsella, Jan., 127.

Lung, X-ray study of effects of industrial gases upon human, E. E. Evans, April, 411.

Lungs, Congenital cystic malformation of, formerly known as "vesicular" or "hypertrophic pulmonary emphysema," recently described as "congenital cystic disease of lungs," with report of case, C. T. Sharpe, June, 692.

Mastoiditis in congenitally deformed ears (ab.), A. T. Wanamaker, April, 514.

Mid-gut loop in children, Two cases of non-rotation of (ab.), P. L. Hipsley, May, 648.

Myeloma, Multiple: case report, M. Batts, Jr., March, 368.

Nasal teeth: report of case (ab.), L. R. Marshall, April, 516.

Odontomas: case report, L. A. M. one, May, 573.

Osteitis fibrosa cystica, Hyperparathyroidism associated with (ab.), H. S. Sharpe, Jan., 124.

Osteochondritis deformans juvenilis in dogs (ab.), P. C. Eichholz and A. M. Ernst, March, 384.

Osteopetrosis: case report, S. R. Beatty and G. Ritchie, March, 338.

Otolaryngology and general surgery, Applications of stereoradiographic centering apparatus in. Part I.—Radiographic

analysis in otology. Part II.—Combined method for localization and extraction of radiopaque objects by means of "light compasses" (ab.), C. Chaussé, March, 385.

Pelviroentgenography and clinical pelvimetry: comparative values in prognosis and outcome of labor (ab.), E. M. Rappaport and S. J. Scadron, June, 758.

Peptic ulcer syndrome. Frequent non-ulcerous cause of (ab.), L. M. Morrison, W. A. Swalm, and C. L. Jackson, June, 758.

Perforation of hollow viscera: roentgen aspects (ab.), E. D. Greenberger, Jan., 128.

Peritoneal membranes. W. R. Cashion, Jan., 66.

Peri-esophageal abscesses: importance of early surgical interference (ab.), W. M. Hunt, Jan., 121.

Pervaginal roentgen therapy. Distribution of radiation in, M. C. Morrison, April, 451.

Petrositis: roentgenologic and pathologic correlation (ab.), E. P. Fowler, Jr., and P. C. Swenson, Feb., 256.

Pituitary tumor. Roentgen therapy of, with regeneration of sella, with growth after age eighteen, H. Gray and R. R. Newell, Jan., 95.

Placenta, previa. Cystographic diagnosis of (ab.), R. J. Prentiss and W. W. Tucker, April, 518.

Planeurography. Serial (serioscopy) and serial planigraphy: critical analysis, J. Kaufman and H. Koster, May, 626.

Planigraphy, Simplified. D. Wheeler and E. W. Spencer, April, 499.

Pneumothorax. Lipoid: report of case (ab.), A. M. Young, H. S. Applebaum, and P. B. Wasserman, June, 759.

Pneumonitis. Differential diagnosis of nonspecific interstitial, F. J. Hodges, March, 276.

Polyposis coli. Roentgen diagnosis of (ab.), A. Knetsch, March, 390.

Pregnancy. Intractable heartburn in, J. R. Evans and J. S. Bouslog, May, 530.

Pulmonary artery. Tracheal and bronchial modifications during course of certain cardiopathies affecting (ab.), D. Routier and R. Heim de Balsac, April, 518.

Pulmonary involvement in lymphoblastomas: special reference to roentgen aspects, A. Hartung, March, 311.

Pulmonary metastases. Regression of, from mammary carcinoma following inactivation of ovaries by irradiation: report of two cases, H. B. Hunt, Feb., 235.

Pulmonary tuberculosis. Incidence and significance of apical lesions in: pathologic and roentgenologic study, E. A. Addington and B. R. Kirklin, March, 327.

Pyleography. Excretory, in infants, with help of tomograph (ab.), J. Jochims, May, 648.

Rapid roentgenography in operating room, with single solution (ab.), F. R. Wilkinson, Jan., 113.

Renal pelvis. Tumors of: report of case (ab.), F. C. Schlimberger, May, 649.

Sarcoma. Aid to roentgen diagnosis of Ewing's (ab.), S. Welin, Feb., 255.

Sarcoma of stomach, Primary: report of three cases, L. K. Chont, June, 714.

Sarcoma, Osteogenic, occurring in fragilitas ossium: case report, F. C. Jewell and J. E. Lofstrom, June, 741.

Siblings. Complete transposition of viscera in, M. Feldman and N. E. Needle, Jan., 97.

Silicosis and silicosis with infection. Modifying influences of, upon healthy chest, E. P. Pendergrass and P. J. Hodes, April, 400.

Silico-tuberculosis as seen in large industrial center, B. H. Douglas and E. Tompkins, April, 405.

Sinus disease. Evaluation of roentgen therapy in, J. R. Maxfield, Jr., and C. L. Martin, March, 300.

Skeletal metastasis in cancer (ab.), C. F. Geschickter and I. H. Maseritz, June, 757.

Sphenoid bone. Osteomyelitis of: report of five cases with autopsy findings (ab.), H. C. Ballenger, Jan., 115.

Spina bifida anterior (ab.), F. E. G. Moreira, Feb., 260.

Spine. Fissure formation in articular facets of lumbar: operative findings in one case (ab.), H. E. Hippis, Jan., 130.

Spines. Impressions gained by analyzing 10,000 lumbar (ab.), R. H. Millwee, Jan., 130.

Stenosis in adult. Idiopathic benign hypertrophic pyloric (ab.), F. E. Kibler, Jan., 123.

Stereoscopic measurements of distances in female pelvis and on fetal skull (ab.), B. Westergaard, June, 757.

Stereoscopic measurements. Simple method for (ab.), H. Christensen, Jan., 114.

Stomach. Radio-surgical treatment of carcinoma of (ab.), A. Salotti, March, 389.

Stomach. Retrotelial sarcoma of, M. J. Hubeny and P. J. Delano, March, 366.

Sympysis pubis. Tuberculosis of (ab.), L. Alpert, Jan., 115.

Talocalcaneal articulation. Anomalous: double ankle bones, M. S. Burman and S. E. Sinberg, Feb., 239.

Tetralogy of Fallot: correlation of clinical, roentgenologic, and postmortem findings (ab.), J. A. Pescatore, J. B. Wolfe, and V. A. Digilio, May, 644.

Thoracic diseases other than tuberculosis. Roentgenologic diagnosis of (ab.), W. G. Scott, Jan., 119.

Thoracoplasty. Late results of (ab.), H. A. Carlson, H. A. Burns, and W. O. Wangensteen, Jan., 127.

Thorotrust. Accidental perivascular injection of: report of two cases, S. E. Ziffren, Feb., 171.

Thyroid. Calcification of cystadenoma of (ab.), C. Bunch, Feb., 256.

Tuberculosis, Lower lobe, M. J. Sokoloff, May, 589.

Tuberculosis, Primary complex of childhood: analysis of x-ray examinations of 857 cases with positive Mantoux reactions (ab.), F. H. Tyner, Feb., 256.

Tuberculosis, Roentgenographic prognosis of pulmonary, J. Gershon-Cohen and J. T. Farrell, Jr., March, 292.

Tuberculous hilar and mediastinal adenopathy in adults, B. P. Widmann, H. W. Ostrum, and J. S. Fetter, May, 521.

Tumors of ankle (ab.), W. G. Stuck and D. A. Todd, Feb., 257.

Ulcer. Duodenal, in presence of gall-bladder symptomatology, E. J. Ryan, June, 685.

Unsharpness of shadow of moving object. Roentgenographic. —II, S. R. Warren, Jr., June, 731.

Urethral cavernoma. Roentgen findings in so-called (ab.), B. Stenström, April, 517.

Urinary tumors. Discussion on radiology of tumors of (ab.), B. D. Newcomb and R. Williams, April, 517.

Vertebral lesions in undulant fever (ab.), W. A. Bishop, Jr., Feb., 255.

Volvulus. Chronic gastric, A. C. Singleton, Jan., 53.

film

- Ownership of x-ray film (com.), S. C. Barrow, April, 510.
- Size. Why the film? R. A. Rendich and L. A. Harrington, May, 536.
- Spot film. Some uses of, in roentgen-ray examination of gastro-intestinal tract, J. C. Bell, April, 469.

filters

- Variable filters. Roentgen therapy of leukemia with (ab.), A. Possati, June, 736.

protection

- Economic features of x-ray protection, L. S. Taylor, April, 425.
- Radium protection: measurements of exposure to gamma rays, R. E. Fricke and M. M. D. Williams, May, 560.

therapy

- Adenopathy in adults, Tuberculous hilar and mediastinal, B. P. Widmann, H. W. Ostrum, and J. S. Fetter, May, 521.
- Adenosarcoma of kidney (Wilms' mixed tumor). Case of (ab.), J. Agerholm-Christensen, May, 649.
- Bones and joints. Roentgen therapy for painful conditions of, H. C. Ochsner and E. B. Mumford, April, 444.
- Cancer in lymph nodes of neck, Metastatic (ab.), H. G. F. Edwards, March, 389.
- Cancer in small communities, X-ray treatment of (ab.), F. W. O'Brien, Jan., 119.
- Cancer. Irradiation and hereditary mammary, S. E. Owen and E. A. Williams, May, 541.
- Cancer of cervix of uterus (ab.), D. B. Ludwig, Jan., 119.
- Cancer of larynx, Present conception of treatment of, H. Coutard, Feb., 136.
- Cancer. Variations in radiation technic and biologic effects in treatment of pharyngeal, H. E. Martin, Feb., 149.
- Cancer, X-ray therapy: prophylactic agent in prevention (ab.), R. C. Curtis, Jan., 118.
- Carbuncles. Treatment of severe, by x-ray (ab.), F. W. O'Brien, May, 647.
- Carcinoma of breast. Technic of post-operative radiation therapy in (ab.), F. Perussia, Jan., 115.
- Carcinoma of breast. X-ray treatment of (ab.), L. C. Kinney, Jan., 116.
- Carcinoma of cervix. Report of cases of, treated in 1932 and 1933, at Cancer Institute in Strassburg (ab.), A. Gunsett, Jan., 118.
- Carcinoma of lung, Primary (ab.), J. B. Flick and J. T. Bauer, Jan., 117.
- Carcinoma of rectum and anus. What can one expect from radiation in? (ab.), O. N. Meland, March, 389.
- Carcinoma of rectum. Treatment of, by electrocoagulation and radiation, in selected cases, H. I. Teperson, May, 610.
- Carcinoma of upper respiratory and intestinal tracts. Results of protracted fractional roentgen therapy of, from 1930 to 1938 (ab.), R. Glauner, S. Teufel, and A. Daigger, Jan., 119.
- Carcinoma of uterus. Results in treatment of (ab.), H. Goecke, Jan., 118.
- Carcinoma of uvula. Primary squamous-cell: report of two cases (ab.), J. M. Robb and M. W. Michels, March, 389.
- Carcinoma of vulculea. Treatment of (ab.), E. Wessely, March, 389.
- Carcinoma. Radiologic treatment of skeletal metastases in mammary (ab.), H. B. Wulff, Jan., 116.
- Carcinomas, bladder. New approach to treatment of certain, L. S. Goin and E. F. Hoffman, Feb., 205.
- Carcinomas of cervix. Reaction of, to known doses of 800 kv. roentgen rays: five, four-, and three-year survival rates, H. Schmitz, Jan., 34.
- Castration of female by irradiation: results of 334 patients, W. S. Peck and J. T. McGreer with N. R. Kretzschmar and W. S. Brown, Feb., 176.
- "Convergent" irradiation in treatment of carcinoma of stomach. Results of roentgen (ab.), M. Nakaidzumi and S. Taniwasa, Feb., 255.
- Doses. Radiation, and types of reaction in fractional irradiation of very small skin areas by means of near distance treatment technic (ab.), A. Kautzky, April, 514.
- Dosimetric studies of "tangent" irradiation (ab.), C. Esser, April, 514.
- Electrons. Principles of new therapy with high speed: preliminary report, R. Schindler, Feb., 222.

## ROENTGEN RAYS, therapy—Continued

Hyperthyroidism, Roentgen-ray treatment of, G. E. Pfahler, Jan., 43.

Infections, X-ray treatment of: review of literature and report of cases of mastoiditis and sinusitis (ab.), B. R. Dysart, May, 647.

Inflammatory disease, Roentgen therapy in (ab.), J. N. Collins, Jan., 126.

Inflammatory lesions, Radiation therapy in treatment of (ab.), F. O. Coe, Jan., 126.

Inflammatory processes, Value and limitations of radium and/or roentgen irradiation in acute (ab.), M. Ponzi, Jan., 126.

Kidney, Wilms' tumor (adenomyosarcoma) of, in children: report of case (ab.), C. C. Higgins and F. L. Shively, Jr., May, 649.

Larynx, Roentgen consideration of lesions in and about (ab.), T. J. Wachowski, June, 755.

Leukemia, Hematologic diagnosis and roentgenologic treatment of myelogenous, W. C. Popp and C. H. Watkins, June, 663.

Leukemia, Roentgen therapy of, with variable filters (ab.), A. Possati, June, 756.

Lymphoma, Symptomatology of: its endless variety (ab.), J. H. Means, June, 756.

Mastitis, Acute puerperal, Roentgen therapy in, J. F. Elward and S. M. Dodek, Feb., 166.

Metastasis in cancer, Skeletal (ab.), C. F. Geschickter and I. H. Maseritz, June, 757.

Myeloma, Multiple: case report, M. Batts, Jr., March, 368.

Neoplasms of testis (ab.), H. Cabot and J. Berkson, Feb., 259.

Ovaries, Inactivation of, by irradiation, Regression of pulmonary metastases from mammary carcinoma following: report of two cases, H. B. Hunt, Feb., 235.

"Pendulum" irradiation, Measurements during (ab.), M. Bender and A. Köhler, Jan., 114.

Periarthritis, humero-scapular, X-ray treatment of (ab.), S. Mustakallio, Jan., 114.

Pervaginal roentgen therapy, Distribution of radiation in, M. C. Morrison, April, 451.

Pituitary tumor, Roentgen therapy of, with regeneration of sella, with growth after age eighteen, H. Gray and R. R. Newell, Jan., 95.

Plesio roentgen therapy, Indications for (ab.), F. Perussia, Feb., 254.

Polycythemia, Roentgen therapy of (ab.), L. Siciliano, Jan., 129.

Polycythemia, Treatment of, by means of general body exposure with roentgen rays (ab.), O. Simon, Jan., 128.

Potential deep therapy, Two years' experience with 400 kv. constant, D. Steel, Feb., 187.

Protraction and fractionation, Experimental investigations on importance of (ab.), B. Faber, May, 644.

Radiation therapy (ed.), W. D. Coolidge, Jan., 103.

Radiobiologic observations (ab.), G. Dell'Acqua, April, 514.

Radiobiology, Factor "lambda" in (ab.), M. Lapenna, Jan., 113.

Sarcoma of stomach, Primary: report of three cases, L. K. Chont, June, 714.

Sarcoma of stomach, Retothel, M. J. Hubeny and P. J. Delano, March, 366 (367).

Sarcoma, Osteogenic, occurring in fragilitas ossium: case report, F. C. Jewell and J. E. Lofstrom, June, 741.

Scleroses, Roentgen therapy of multiple (ab.), W. von Wieser, Feb., 254.

Sinus disease, Evaluation of roentgen therapy in, J. R. Maxfield, Jr., and C. L. Martin, March, 300.

Skin and lip cancer, Roentgen therapy of (ab.), J. Horvath, Jan., 117.

Skin cancer, Low voltage roentgen therapy in (ab.), W. S. MacComb, Jan., 117.

Sterilization by irradiation, Indications for (ab.), A. Mayer, April, 518.

Supervoltage roentgen therapy, Clinical aspects of, W. E. Costolow, Jan., 28.

Supervoltage roentgen therapy, Differences between 200 kilovolt and, R. Dresser, J. C. Rude, and B. J. Cosman, Jan., 13.

Supervoltage x-ray machine, Therapeutic and economic indications for teleradion and, C. D. Lucas, Feb., 193.

Thyroid, Roentgen irradiation of, in treatment of cardiac decompensation (ab.), G. Pellegrini, Jan., 125.

Thyrotoxicosis, Treatment of severe (ab.), W. O. Thompson, S. G. Taylor, R. W. McNealy, and K. A. Meyer, April, 517.

Tumor of bone, Malignant giant-cell: report of case involving tibia (ab.), A. Kleinberg, Feb., 259.

Tumor of known genetic constitution, Preliminary report of effect of x-rays on, M. C. Reinhard and S. G. Warner, April, 438.

Tumors of renal pelvis: report of case (ab.), F. C. Schluemberger, May, 649.

"Ulcer disease," Roentgen therapy of (ab.), F. Eggs, Jan., 128.

**SALIVARY GLANDS**  
Tumors of salivary glands: illustrative cases, Pathogenesis and radium therapy of mixed, I. Levin, Jan., 69.

**SARCOMA**  
Ewing's sarcoma, Aid to roentgen diagnosis of (ab.), S. Welin, Feb., 255.

Gallieri sarcoma *in vivo* and *in vitro*, Effect of roentgen rays on (ab.), G. Tonioli, Jan., 113.

Kidney, Wilms' tumor (adenomyosarcoma) of, in children: report of case (ab.), C. C. Higgins and F. L. Shively, Jr., May, 649.

Kidney, Case of adenosarcoma of (Wilms' mixed tumor) ab., J. Agerholm-Christensen, May, 649.

Osteogenic sarcoma occurring in fragilitas ossium: case report, F. C. Jewell and J. E. Lofstrom, June, 741.

Primary sarcoma of lung with brain metastasis (ab.), R. C. Ellis, Jan., 126.

Primary sarcoma of stomach: report of three cases, L. K. Chont, June, 714.

Production of transplantable carcinoma and sarcoma in guinea pigs by injections of thorotrast (ab.), L. Foulds, March, 384.

Stomach, Retothel sarcoma of, M. J. Hubeny and P. J. Delano, March, 366.

**SCAPULA**  
Humero-scapula periarthritis, X-ray treatment of (ab.), S. Mustakallio, Jan., 114.

**SCHISTOSOMIASIS**  
Radiological manifestations in bilharziasis (ab.), Ragheb, May, 647.

**SCLEROSIS**  
Roentgen therapy of multiple scleroses (ab.), W. von Wieser, Feb., 254.

**SELLA TURICA**  
Regeneration of sella, Roentgen therapy of pituitary tumor with, with growth after age eighteen, H. Gray and R. R. Newell, Jan., 95.

**SHOULDER**  
Humero-scapular periarthritis, X-ray treatment of (ab.), S. Mustakallio, Jan., 114.

**SINUSES**  
Adamantinoma, Infrasellar (ab.), W. A. D. Drummond, Feb., 257.

Ethmoiditis, Radium therapy in polypoid, G. A. Robinson, April, 449.

Radium, Use of, in maintaining patent frontonasal opening in external operations of fronto-ethmoid group of sinuses: preliminary report, H. L. Williams and R. E. Fricke, June, 760.

Roentgen therapy in sinus disease, Evaluation of, J. R. Maxfield, Jr., and C. L. Martin, March, 300.

Sinusitis and non-specific inflammatory affections of lung, Combination of (ab.), S. R. Kjellberg, Jan., 127.

X-ray treatment of infections: review of literature and report of cases of mastoiditis and sinusitis (ab.), B. R. Dysart, May, 647.

**SILICOSIS**  
Silicosis and silicosis with infection, Modifying influences of upon healthy chest, E. P. Pendergrass and P. J. Hodes, April, 400.

Silico-tuberculosis as seen in large industrial center, B. H. Douglas and E. Tompkins, April, 405.

**SKELETON. See Bones.**

**SKIN**  
Biologic skin effects, Late sequelae of divergent, produced by roentgen irradiation with varying voltages, E. R. Witwer and T. Leucutia, Jan., 24.

Ultra-violet erythema and its prevention (ab.), J. Kimmig and R. Dükter, Feb., 259.

Ultra-violet light dosimetry, Problem of (ab.), U. Henschke and R. Schulze, Feb., 259.

**cancer**  
Radiation, Comparative studies of effect of, after simultaneous irradiation of cutaneous cancer and parent tissue (ab.), Paltrinieri and B. Galavotti, Jan., 117.

Roentgen therapy, Low voltage, in skin cancer (ab.), W. S. MacComb, Jan., 117.

Roentgen therapy of skin and lip cancer (ab.), J. Horvath, Jan., 117.

**diseases**  
Hemangiomas, Cutaneous cavernous, Radium treatment of, using surface applications of radium tubes in glass capsules (ab.), M. Strandqvist, Jan., 129.

**SKULL**  
Fetal skull, Stereoscopic measurements of distances in female pelvis and on (ab.), B. Westergaard, June, 757.

Osteomyelitis of sphenoid bone: report of five cases with autopsy findings (ab.), H. C. Ballenger, Jan., 115.

**SOCIESIES**  
American Association of Industrial Physicians and Surgeons, May, 638.

American Board of Radiology, March, 379.

American College of Radiology, April, 503.

American Radium Society, May, 637.

American Society of X-ray Technicians, April, 510.

Associated Radiologists of New York, Inc., Jan., 101; Feb., 245; March, 374; April, 505; May, 633; June, 747.

Baltimore City Medical Society, Radiological Sect., Jan., 100; Feb., 244; March, 373; April, 504; May, 633; June, 747.

Brooklyn Roentgen Ray Society, Jan., 101; Feb., 245; March, 374; April, 505; May, 633; June, 747.

Buffalo Radiological Society, Jan., 101; Feb., 245; March, 374; April, 505; May, 633; June, 747.

California Medical Association, Sect. on Radiology, Jan., 100; Feb., 244; March, 373; April, 504; May, 632; June, 746.

Canadian Association of Radiologists, May, 635; June, 749.

Central New York Roentgen Ray Society, Jan., 101; Feb., 245; March, 374; April, 505; May, 633; June, 747.

Chicago Roentgen Society, Jan., 100; Feb., 244; March, 373; April, 504; May, 632; June, 746.

Cleveland Radiological Society, Jan., 102; Feb., 246; March, 375; April, 506; May, 634; June, 748.

Connecticut State Medical Society, Sect. on Radiology, Jan., 100; Feb., 244; March, 373; April, 504; May, 632; June, 746.

Denver Radiological Club, Jan., 100; Feb., 244; March, 373; April, 504; May, 632; June, 746.

Detroit X-ray and Radium Society, Jan., 101; Feb., 245; March, 374; April, 505; May, 633; June, 747.

Florida Radiological Society, Jan., 100; Feb., 244; March, 373; April, 504; May, 632; June, 746.

Georgia Radiological Society, Jan., 100; Feb., 244; March, 373; April, 504; May, 632; June, 746.

Illinois Radiological Society, Jan., 100; Feb., 244; March, 373; April, 504; May, 632; June, 746.

Illinois State Medical Society, Sect. on Radiology, Jan., 100; Feb., 244; March, 373; April, 504; May, 632; June, 746.

Indiana Roentgen Society, Jan., 100; Feb., 244; March, 373; April, 504; May, 632; June, 746.

International College of Surgeons, Jan., 106.

Iowa X-ray Club, Jan., 100; Feb., 244; March, 373; April, 504; May, 632; June, 746.

Kansas City Radiological Society, Jan., 101; Feb., 245; March, 374; April, 505; May, 633; June, 747.

Kansas State Medical Society, Feb., 242.

Kentucky Radiological Society, Jan., 100; Feb., 244; March, 373; April, 504; May, 632; June, 746.

Long Island Radiological Society, Jan., 101; Feb., 244; March, 374; April, 505; May, 633; June, 747.

Los Angeles County Medical Association, Radiological Sect., Jan., 100; Feb., 244; March, 373; April, 504; May, 632; June, 746.

Memphis Roentgen Club, Jan., 102; Feb., 246; March, 375; April, 506; May, 634; June, 748.

Michigan Association of Roentgenologists, Jan., 101; Feb., 245; March, 374; April, 505; May, 633; June, 747.

Mid-western Radiologists' Fourth Annual Clinical Conference, Louisville, Ky., Feb. 9 and 10, 1940, Jan., 106.

Mid-western Radiologists' Fourth Annual Clinical Conference, March, 378.

Mid-winter Conference of Eastern Radiologists, Jan., 106.

Milwaukee Roentgen Ray Society, Jan., 102; Feb., 246; March, 375; April, 506; May, 634; June, 749.

Minnesota Radiological Society, Jan., 101, 107; Feb., 245; March, 374; April, 505; May, 633; June, 747.

Nebraska Radiological Society, Jan., 101; Feb., 245; March, 374; April, 505; May, 633; June, 747.

New England Roentgen Ray Society, Jan., 101; Feb., 245; March, 374; April, 505; May, 633; June, 747.

New York Roentgen Society, Jan., 101; Feb., 244; March, 374; April, 505; May, 633; June, 748.

Ohio State Medical Association, Feb., 243.

Pacific Roentgen Club, Jan., 100; Feb., 244; March, 373; April, 504; May, 632; June, 746.

Pennsylvania Radiological Society, Jan., 102; Feb., 246; March, 375; April, 506; May, 634; June, 748.

Philadelphia Roentgen Ray Society, Jan., 102; Feb., 246; March, 375, 378; April, 506; May, 634; June, 748.

Pittsburgh Roentgen Society, Jan., 102; Feb., 246; March, 375; April, 506; May, 634; June, 748.

Radiological Sect. of Wisconsin State Medical Society, Jan., 102; Feb., 246; March, 375; April, 506; May, 634; June, 749.

Radiological Society of Academy of Medicine (Cincinnati Roentgenologists), Jan., 102; Feb., 246; March, 375; April, 506; May, 634; June, 748.

Radiological Society of New Jersey, Jan., 101; Feb., 245; March, 374; April, 505; May, 633; June, 747.

Radiological Society of North Carolina, Jan., 101; Feb., 245; March, 374; April, 505; May, 634; June, 748.

Radiological Society of Virginia, Jan., 102; Feb., 246; March, 375; April, 506; May, 634; June, 749.

Red Cross to enroll medical technologists for military reserve, April, 510.

Rochester Roentgen-ray Society, Jan., 101; Feb., 245; March, 374; April, 505; May, 634; June, 748.

St. Louis Society of Radiologists, Jan., 101; Feb., 245; March, 374; April, 505; May, 633; June, 747.

San Francisco Radiological Society, Jan., 100; Feb., 244; March, 373; April, 504; May, 632; June, 746.

Sect. on Radiology, Canadian Medical Association, May, 635; June, 749.

Sect. on Radiology, Ontario Medical Association, May, 635; June, 749.

South Carolina X-ray Society, Jan., 102; Feb., 246; March, 375; April, 506; May, 634; June, 748.

Tennessee Radiological Society, Jan., 102; Feb., 246; March, 375; April, 506; May, 634; June, 748.

Texas Radiological Society, Jan., 102; Feb., 246; March, 375; April, 506; May, 634; June, 749.

University of Wisconsin Radiological Conference, Jan., 102; Feb., 246; March, 375; April, 506; May, 635; June, 749.

Washington State Radiological Society, Jan., 102; Feb., 246; March, 375; April, 506; May, 634; June, 749.

**SPINE**  
"Basilar impression," Diagnosis of, A. Schüller, Feb., 214.

Fissure formation in articular facets of lumbar spine: operative findings in one case (ab.), H. E. Hipp, Jan., 130.

Fractured spine, Supine position in emergency treatment of patients with (ab.), G. Hyman, Jan., 130.

Herniation of intervertebral disc, Two observations of posterior (ab.), E. Jéquier and J. Rossier, Jan., 130.

Lumbar spines, Impressions gained in analyzing 10,000 (ab.), R. H. Millwee, Jan., 130.

Osteomyelitis, Acute, of vertebral body following compression fracture (ab.), R. F. Atsatt, Jan., 122.

Osteoporosis, Painful spinal (ab.), P. P. Ravault, J. Gruber-Duverney, and G. Léger, Jan., 114.

Spina bifida anterior (ab.), F. E. G. Moreira, Feb., 260.

Vertebral lesions in undulant fever (ab.), W. A. Bishop, Jr., Feb., 255.

**SPLEEN**  
Hepatosplenography, Should use of thorium dioxide in, be abandoned? Ab., E. Benassi, March, 390.

Roentgenologic treatment of myelogenous leukemia, Hematologic diagnosis and, W. C. Popp and C. H. Watkins, June, 663.

**STERILIZATION**  
Irradiations, Indications for sterilization by (ab.), A. Mayer, April, 518.

**STOMACH**  
Bezoar, Shellac, H. H. Inlow, May, 618.

Cancer of stomach (Carman Lecture), W. C. MacCarty, Jan., 1.

Carcinoma of stomach, Radio-surgical treatment of (ab.), A. Salotti, March, 389.

Carcinoma of stomach, Results of roentgen "convergent" irradiation in treatment of (ab.), M. Nakaidzumi and S. Tarusawa, Feb., 255.

Diverticula of stomach (ab.), W. Halloran, Feb., 255.

Gastritis, Ulcerative, and residual lesions (ab.), H. E. Robertson, June, 758.

Peptic ulcer syndrome, Frequent non-ulcerous cause of (ab.), L. M. Morrison, W. A. Swalm, and C. L. Jackson, June, 758.

Peptic ulcers, Chronic, in children (ab.), H. B. Kellogg, June, 759.

Sarcoma of stomach, Primary: report of three cases, L. K. Chont, June, 714.

Sarcoma of stomach, Retothel, M. J. Hubeny and P. J. Delano, March, 366.

Stenosis in adult, Idiopathic benign hypertrophic pyloric (ab.), F. E. Kibler, Jan., 123.

**TEETH**  
Nasal teeth: report of case (ab.), L. R. Marshall, April, 516.

Odontomas: case report, L. A. Malone, May, 573.

**TELERADIUM THERAPY**  
Indications, Therapeutic and economic, for teleradium and supervoltage x-ray machine, C. D. Lucas, Feb., 193.

**TEMPORAL BONE**  
Fracture of petrous pyramid, Transverse (ab.), W. E. Grove, April, 516.

Petrositis: roentgenologic and pathologic correlation (ab.), E. P. Fowler, Jr., and P. C. Swenson, Feb., 256.

Petrosal temporal bone, Air cells in, in child of 13 years (ab.), J. G. Wilson, Feb., 256.

**TESTIS**  
Neoplasms of testis (ab.), H. Cabot and J. Berkson, Feb., 259.

**TERATOLOGY OF FALLOT.** See Heart and vascular system.

**THORAX.** See Chest.

**THORIUM DIOXIDE PREPARATIONS**  
Carcinoma and sarcoma, Production of transplantable, in guinea pigs by injections of thorotrust (ab.), L. Foulds, March, 384.

Hepatosplenography, Should use of thorium dioxide in, be abandoned? Ab., E. Benassi, March, 390.

**THROMBOSIS**  
Acute mesenteric arterial thrombosis (ab.), W. Ogden, May, 645.

Coronary thrombosis among persons less than forty years of age: study of thirty cases (ab.), W. H. Goodson, Jr., and F. A. Willis, Jan., 124.

**THYROID**  
Chondro-epiphysitis, Endocrine implication of juvenile (ab.), R. L. Schaefer, F. L. Strickroot, and F. H. Purcell, March, 387.

Cystadenoma of thyroid, Calcification of (ab.), C. Bunch, Feb., 256.

Hyperthyroidism, Roentgen-ray treatment of, G. E. Pfahler, Jan., 43.

Roentgen irradiation of thyroid in treatment of cardiac decompensation (ab.), G. Pellegrini, Jan., 125.

Thyrotoxicosis, Treatment of severe (ab.), W. O. Thompson, S. G. Taylor, R. W. McNealy, and K. A. Meyer, April, 517.

**TIBIA**  
Adamantinoma of tibia (ab.), J. O. Rankin, Feb., 257.

Tumor of bone, Malignant giant cell: report of case involving tibia (ab.), S. Kleinberg, Feb., 259.

**TOMOGRAPHY**  
Excretory pyelography in infants, with help of tomograph (ab.), J. Joichims, May, 648.

**TOMOGRAPHY—Continued**

Stereoradiographic centering apparatus. Applications of, in otology and general surgery. Part I.—Radiographic analysis in otology. Part II.—Combined method for localization and extraction of radiopaque objects by means of "light compasses" (ab.), C. Chaussé, March, 385.

**TRAUMA**

Fracture of pelvis and wrist. Traumatic, complicated by osteitis deformans (Paget's disease) (ab.), H. H. Huber and A. Yaffe, April, 516.

Knee after trauma, Air in, M. A. Walker and L. G. Allen, Feb., 239.

Knee joint, Common injuries involving (ab.), L. H. Edmunds, May, 650.

Lumbar spine, Fissure formation in articular facets of: operative findings in one case (ab.), H. E. Hipp, Jan., 130.

Necrosis, Secondary, of head of femur after traumatic dislocation of hip joint in 14-year-old patient (ab.), Hans-Heinz Mutschler, Jan., 125.

Roentgen therapy for painful conditions of bones and joints, H. C. Ochsner and E. B. Mumford, April, 444.

**TUBERCULOSIS, bone**

Syphysis pubis, Tuberculosis of (ab.), L. Alpert, Jan., 115.

**pulmonary**

Apical lesions in pulmonary tuberculosis. Incidence and significance of: pathologic and roentgenologic study, E. A. Addington and B. R. Kirklin, March, 327.

Besnier-Boeck's disease, Familial occurrence of (ab.), M. Dressler, Feb., 257.

Bronchomycosis, Roentgenological aspects of, H. P. Doub, March, 267.

Calcification of cold abscess of anterior thoracic wall: rare complication in tuberculous pleural effusion (ab.), G. Cascelli, Jan., 119.

Childhood tuberculosis, Primary complex of: analysis of x-ray examinations of 857 cases with positive Mantoux reactions (ab.), F. H. Tyner, Feb., 256.

Lower lobe tuberculosis, M. J. Sokoloff, May, 589.

Roentgenographic prognosis of pulmonary tuberculosis, J. Gershon-Cohen and J. T. Farrell, Jr., March, 292.

Silico-tuberculosis as seen in large industrial center, B. H. Douglas and E. Tompkins, April, 405.

Tuberculous hilar and mediastinal adenopathy in adults, B. P. Widmann, H. W. Ostrum and J. S. Fetter, May, 521.

X-ray chest film, Miniature, H. E. Potter, B. H. Douglas, and C. C. Birkle, March, 283.

X-ray surveys, Group, in apparently healthy individuals, A. B. Robins and D. E. Ehrlich, May, 595.

**TUMORS**

Adenosarcoma of kidney (Wilms' mixed tumor), Case of (ab.), J. Agerholme-Christensen, May, 649.

Ankle, Tumors of (ab.), W. G. Stuck and D. A. Todd, Feb., 257.

Bone, Malignant giant-cell tumor of: report of case involving tibia (ab.), S. Kleinberg, Feb., 259.

Bone, Tumors of (ab.), C. C. Simmons, March, 388.

Bowel, Polyp of large, E. L. Jenkinson, April, 489.

Breast, Clinical Significance of lump in (ab.), G. Crile, Jr., March, 388.

Cancer, Irradiation and hereditary mammary, S. E. Owen and E. A. Williams, May, 541.

Carcinomas of cervix, Reaction of, to known doses of 800 kv. roentgen rays: five-, four-, and three-year survival rates, H. Schmitz, Jan., 34.

Colon, Roentgenological differential diagnosis between cancer and diverticulitis of, R. Schatzki, June, 651.

Fibrolipoma of bronchus: report of case (ab.), T. H. McGlade, Feb., 258.

Irradiated malignant tumors, Brief observation on erythrocyte sedimentation in relation to, M. F. Madrazo, June, 668.

Irradiation, Castration of female by: results in 334 patients, W. S. Peck and J. T. McGuire with N. R. Kretzschmar and W. E. Brown, Feb., 176.

Joints, Xanthomatous tumors of (ab.), D. A. de Santo and P. D. Wilson, Feb., 257.

Kidney, Neoplasm of horseshoe (ab.), A. Aspinall, May, 649.

Kidney, Wilms' tumor (adenomyosarcoma) of, in children: report of case (ab.), C. C. Higgins and F. L. Shively, Jr., May, 649.

Lipoma of large intestine, Submucous, with case report, W. J. Ravenel, Feb., 217.

Lymphoblastomas, Pulmonary involvement in: special reference to roentgen aspects, A. Hartung, March, 311.

Malignant tumors of skeletal muscles, fascia, joint capsules, tendon sheaths, and bursa (ab.), G. Jönsson, Feb., 258.

Malignant tumors, Vitamin C consumption in patients with, and with lymphogranulomatosis (ab.), A. Vogt, Feb., 258.

Mixed tumors of salivary glands: illustrative cases, Pathogenesis and radium therapy of, I. Levin, Jan., 69.

Nerve tumors, Simple x-ray technic easily interpreted, for diagnosis of acoustic (ab.), J. Dereux and H. Monnier, Feb., 258.

Odontomas: case report, L. A. Malone, May, 573.

Parotid region, Non-malignant vascular tumors of, and their treatment by means of radium molds (ab.), A. Pagani, Jan., 130.

Pituitary tumor, Anterior, associated with cachexia, hypoglycemia, and duodenal ulcer (ab.), M. P. Foley, A. M. Snell, and W. M. Craig, June, 759.

Pituitary tumor, Roentgen therapy of, with regeneration of sella, with growth after age eighteen, H. Gray and R. R. Newell, Jan., 95.

Polyposis coli, Roentgen diagnosis of (ab.), A. Knetsch, March, 390.

Production of transplantable carcinoma and sarcoma in guinea pigs by injections of thorotrust (ab.), L. Foulds, March, 384.

Renal pelvis, Tumors of: report of case (ab.), F. C. Schlumberger, May, 649.

Roentgen therapy in cancer, Clinical aspects of supervoltage, W. E. Costolow, Jan., 28.

Roentgen therapy, Indications for plesio (ab.), F. Perussia, Feb., 254.

Sarcoma, Galliher, *in vivo* and *in vitro*, Effect of roentgen rays on (ab.), G. Toniolo, Jan., 113.

Sarcoma of stomach, Retothel, M. J. Hubeny and P. J. Delano, March, 366.

Telediad and supervoltage x-ray machine, Therapeutic and economic indications for, C. D. Lucas, Feb., 193.

Testis, Neoplasms of (ab.), H. Cabot and J. Berkson, Feb., 259.

Urinary tract, Discussion on radiology of tumors of (ab.), W. D. Newcomb and R. Williams, April, 517.

X-rays, Preliminary report of effects of, on tumor of known genetic constitution, M. C. Reinhard and S. G. Warner, April, 538.

**adamantinoma**

Infrasellar adamantinoma (ab.), W. A. D. Drummond, Feb., 257.

Tibia, Adamantinoma of (ab.), J. O. Rankin, Feb., 257.

**adenoma**

Cystadenoma of thyroid, Calcification of (ab.), C. Bunch, Feb., 256.

Osteitis fibrosa cystica, Hyperthyroidism associated with (ab.), H. S. Sharpe, Jan., 124.

**angoma**

Cutaneous cavernous hemangiomas, Radium treatment of, using surface applications of radium tubes in glass capsules (ab.), M. Strandqvist, Jan., 129.

**lymphoma**

Lymphoma, Symptomatology of: its endless variety (ab.), J. H. Means, June, 756.

**melanoma**

Malignant melanomas: clinical study (ab.), E. M. Daland and J. A. Holmes, Feb., 258.

**myeloma**

Myeloma, Multiple: case report, M. Batts, Jr., March, 368.

**sarcoid**

Besnier-Boeck's disease, Familial occurrence of (ab.), M. Dressler, Feb., 257.

**TWINS**

Body build and heart size: study of 20 pairs of identical twins and 15 pairs of unrelated individuals with similar body height and weight (ab.), W. J. Comeau and P. D. White, May, 646.

**ULNA**

Fracture of olecranon, Operation for (ab.), N. Dunn, Jan., 122.

**ULTRA-VIOLET LIGHT**

Dosimetry, Problem of ultra-violet (ab.), U. Henschke and R. Schulze, Feb., 259.

Erythema, Ultra-violet, and its prevention (ab.), J. Kimmig and R. Dürer, Feb., 259.

**UTERUS**

Biopsy of uterine cervix: end-results of 100 consecutive interventions (ab.), L. E. Phaneuf and M. O. Belson, Feb., 260.

Cancer, Clinical aspects of supervoltage roentgen therapy in, W. E. Costolow, Jan., 28 (30).

Cancer of cervix of uterus (ab.), D. B. Ludwig, Jan., 119.

Cancer of cervix uteri, Survey of 293 cases of, which were treated from 1916 to 1933, by radiation therapy at Grace Hospital, Detroit (ab.), R. H. Stevens and A. K. Payne, Feb., 259.

Cancer, X-ray therapy: prophylactic agent in prevention of (ab.), R. C. Curtis, Jan., 118.

Carcinoma of cervix, Individualized radium therapy of (ab.), H. Reichenmiller, June, 760.

Carcinoma of cervix, Report of cases of, treated in 1932 and 1933, at Cancer Institute in Strassburg (ab.), A. Gunsett, Jan., 118.

Carcinoma of uterus, Results in treatment of (ab.), H. Goedecke, Jan., 118.

Carcinomas of cervix, Reaction of, to known doses of 800 kv. roentgen rays: five-, four-, and three-year survival rates, H. Schmitz, Jan., 34.

Roentgen therapy, Distribution of radiation in pervalginal, M. C. Morrison, April, 451.

Therapy, Two years' experience with 400 kv. constant potential deep, D. Steel, Feb., 187 (190).

**VERTEBRAE. See Spine.****VISCERA, transposition**

Complete transposition of viscera in siblings, M. Feldman and N. E. Needle, Jan., 97.

## VITAMINS

Vitamin C consumption in patients with malignant tumors and with lymphogranulomatosis (ab.), A. Vogt, Feb., 258.

## WRIST

Fracture of pelvis and wrist, Traumatic, complicated by osteitis deformans (Paget's disease) (ab.), H. H. Huber and A. Yaffe, April, 516.

Fractures of carpal navicular: importance of special roentgenography (ab.), A. S. Rothberg, May, 644.

## AUTHORS

ADDINGTON, ERCELL A., and KIRKLIN, B. R., Incidence and significance of apical lesions in pulmonary tuberculosis: pathologic and roentgenologic study, March, 327.

AGERHOLM-CHRISTENSEN, J. (ab.), Case of adenocarcinoma of kidney (Wilms' mixed tumor), May, 649.

ALEXANDER, ALEXANDER J., with SMITH, D. C. WHARTON, jt. auth.

ALLEN, LEWIS G., with WALKER, MAURICE A., jt. auth.

ALPERT, LOUIS (ab.), Tuberculosis of symphysis pubis, Jan., 115.

APPLEBAUM, H. S., with YOUNG, ANNA M., jt. auth.

ARBUCKLE, M. F. (ab.), Treatment of cancer of larynx, with comparison results obtained by surgery and radiation therapy, June, 756.

ASPINAL, ARCHIE (ab.), Neoplasm of horseshoe kidney, May, 649.

ATSATT, RODNEY F. (ab.), Acute osteomyelitis of vertebral body following compression fracture, Jan., 122.

BADE, H. (ab.), Is there an effect of x-rays on skeletal muscles if doses applied do not exceed skin tolerance? Jan., 113.

BALLINGER, HOWARD C. (ab.), Osteomyelitis of sphenoid bone: report of five cases with autopsy findings, Jan., 115.

BARRINGTON-WARD, LANCELOT (ab.), Gallstones: ten years' surgical experience, Jan., 123.

BARRON, W. M. (ab.), Roentgenologic study of gall bladder and bile ducts, Jan., 123.

BARROW, S. C., Ownership of x-ray film (com.), April, 510.

BARRY, THOMAS A., with BURGDORF, A. L., jt. auth.

BATTS, MARTIN, JR., Multiple myeloma: case report, March, 368.

BAUER, JOHN T., with FLICK, JOHN B., jt. auth.

BEARSE, CARL (ab.), Gall-bladder disease in patients under thirty years of age, April, 517.

BEATTY, S. R. and RITCHIE, GORTON, Osteopetrosis: case report, March, 338.

BEDFORD, D. EVAN, with PARKINSON, JOHN, jt. auth.

BELL, JOSEPH C., Some uses of spot film in roentgen-ray examination of gastro-intestinal tract, April, 469.

BELSON, MAURICE O., with PHANEUF, LOUIS E., jt. auth.

BEN-ASHER, S. (ab.), Metastatic bone carcinomatosis associated with parathyroid hyperplasia and with symptoms of hyperthyroidism, with blood calcium and phosphorus studies before and after extirpation of hyperplastic parathyroid gland, March, 388.

BENASSI, ENRICO (ab.), Should the use of thorium dioxide in hepatosplenography be abandoned? March, 390.

BENDER, M., and KÖHLER, A. (ab.), Measurements during "pendulum" irradiation, Jan., 114.

BERK, LOUIS H. (ab.), Cardiac aneurysm, May, 645.

BERKMAN, JOHN M., and PRIESTLEY, JAMES T. (ab.), "Position relief syndrome" of hydronephrosis, May, 649.

BERKSON, JOSEPH, with CABOT, HUGH, jt. auth.

BERTOLOTTI, M. (ab.), Functional factors in radiation therapy, March, 386.

BIRKELO, CARL C., with POTTER, HOLLIS E., jt. auth.

BISHOP, LOUIS F., Jr. (ab.), Gastro-enterology in practice of cardiology, April, 519.

BISHOP, W. A., Jr. (ab.), Vertebral lesions in undulant fever, Feb., 255.

BLAINE, EDWARD S., with GLASER, MARK ALBERT, jt. auth.

BLEWETT, JOHN (ab.), Laryngocèle, June, 755.

BOGART, FRANKLIN B., Radiologist's place in diagnosis of lung pathology (ed.), June, 750.

BORN, H. J., with ZIMMER, K. G., jt. auth.

BOUSLOG, JOHN S., with EVANS, JOHN R., jt. auth.

BRAILSFORD, JAMES F. (ab.), Simple radiographic methods for localization of foreign bodies, April, 515.

BRANSON, HERMAN, and KERSTEN, H., Differential action of x-rays on anterior and posterior regions of *Tubifex tubifex*, Feb., 200.

BRIGGS, ROWLAND, with NEWELL, R. R., jt. auth.

BROWN, WILLIS E., with PECK, WILLIS S., jt. auth.

BRYAN, LLOYD, Howard Edwin Ruggles, May, 638.

BRYANT, BEN L. (ab.), Consideration of reflex etiology of cardiospasm, April, 519.

BUNCH, CHARLES (ab.), Calcification of cystadenoma of thyroid, Feb., 256.

del BUONO, P. (ab.), Some unsolved problems of radiation biology, March, 386.

BURGDORF, A. L., and BARRY, THOMAS A. (ab.), Non-tropical sprue, April, 514.

BURMAN, M. S., and SINBERG, S. E., Anomalous talocalcaneal articulation: double ankle bones, Feb., 239.

BURNS, HERBERT A., with CARLSON, HERBERT A., jt. auth.

BUTLER, ETHAN F., LINCOLN, N. STANLEY, DEEGAN, JOHN K., and HORTON, RALPH (ab.), Late results of foreign bodies long retained in lower airways, April, 515.

CABOT, HUGH, and BERKSON, JOSEPH (ab.), Neoplasms of testis, Feb., 259.

CAHAL, MAC F., Modern hospital and its relation to practice of medicine, March, 370; Washington scene, June, 744.

CARLSON, HERBERT A., BURNS, HERBERT A., and WANGENSTEEN, OWEN H. (ab.), Late results of thoracoplasty, Jan., 127.

CASCELLI, GIOVANNI (ab.), Calcification of cold abscess of anterior thoracic wall: rare complication in tuberculous pleural effusion, Jan., 119.

CASHION, WILLIAM R., Pericolic membranes, Jan., 66.

CHANCE, OLIVER (ab.), Treatment of buccal carcinoma, Jan., 118.

CHAUSSE, C. (ab.), Applications of stereoradiographic centering apparatus in otology and general surgery. Part I.—Radiographic analysis in otology. Part II.—Combined method for localization and extraction of radiopaque objects by means of "light compasses," March, 385.

CHONT, L. K., Primary sarcoma of stomach: report of three cases, June, 714.

CHRISTENSEN, HELGE (ab.), Simple method for stereoscopic measurements, Jan., 114.

CHRISTIE, ARTHUR C., Thomas Allen Groover, June, 752.

CHRISTIE, H. KENRICK (ab.), Hydatid cysts in both lungs, June, 757.

CLARKSON, J. R., and MAYNEORD, W. V. (ab.), "Quality" of high voltage radiations. Part II.—"Quality" within scattering medium, June, 760.

COCHRAN, W. H., with WIGBY, P. E., jt. a.th.

COE, FRED O. (ab.), Radiation therapy in treatment of inflammatory lesions, Jan., 126.

COLLINS, J. N. (ab.), Roentgen therapy in inflammatory disease, Jan., 126.

COMEAU, WILFRID J., and WHITE, PAUL D. (ab.), Body build: study of 20 pairs of identical twins and 15 pairs of unrelated individuals with similar body height and weight, May, 646.

CONDON, E. U., Recent advances in nuclear physics, May, 581.

COLLIIDGE, WILLIAM D., Radiation therapy (ed.), Jan., 103.

CORRIGAN, K. E., Physical factors influencing difference between 200 and 500 kilovolt radiation, Jan., 8.

COSMAN, BERNARD J., with DRESSER, RICHARD, jt. auth.

COSTOLÓW, WILLIAM E., Clinical aspects of supervoltage roentgen therapy in cancer, Jan., 28.

COUTARD, HENRI, Present conception of treatment of cancer of larynx, Feb., 136.

COVA, PIER LUIGI, and TEMPINI, GIAMBATTISTA (ab.), Experimental researches on radiological anatomy of extrahepatic biliary ducts, Jan., 115.

CRABTREE, HERBERT G., and GRAY, L. H. (ab.), Influence of wave length on biological effectiveness of radiation, March, 385.

CRAIG, WINCHELL M., with FOLEY, MAURICE P., jt. auth.

CRAWFORD, J. HAMILTON, with GUBNER, RICHARD, jt. auth.

CRILE, GEORGE, Jr. (ab.), Clinical significance of lump in breast, March, 388.

CROSSEN, H. S., and SCOTT, WENDELL G. (ab.), Lost drain and roentgen-ray identification, Jan., 114.

CURTIS, R. C. (ab.), X-ray therapy: prophylactic agent in prevention of cancer, Jan., 118.

DAIGGER, A., with GLAUNER, R., jt. auth.

DALAND, ERNEST M., and HOLMES, JOSEPH A. (ab.), Malignant melanomas: clinical study, Feb., 258.

DEEGAN, JOHN K., with BUTLER, ETHAN F., jt. auth.

DELANO, PERCY J., with HUBENY, MAXIMILIAN J., jt. auth.

DELLA-ACQUA, G. (ab.), Radiobiologic observations, April, 514.

DEREUX, J., and MONNIER, H. (ab.), Simple x-ray technic easily interpreted, for diagnosis of acoustic nerve tumors, Feb., 258.

DE SANTO, DOMINIC A., and WILSON, PHILIP D. (ab.), Xanthomatous tumors of joints, Feb., 257.

DIGILIO, VICTOR A., with PESCATORE, JOSEPH A., jt. auth.

DODEK, SAMUEL M., with ELWARD, JOSEPH F., jt. auth.

DOUB, HOWARD P., Roentgenologic aspects of bronchomycosis, March, 267.

DOUGLAS, BRUCE H., and TOMPKINS, EDMUND, Silicotuberculosis as seen in large industrial center, April, 403.

DOUGLAS, BRUCE H., with POTTER, HOLLIS E., jt. auth.

DRESSER, RICHARD, RUDE, JOE C., and COSMAN, BERNARD J., Differences between 200 kilovolt and supervoltage roentgen therapy, Jan., 13.

DRESSLER, M. (ab.), Familial occurrence of Besnier-Boeck's disease, Feb., 257.

DRUMMOND, W. A. D. (ab.), Infrasellar adamantinoma, Feb., 257.

DRY, THOMAS J. (ab.), Essentials in diagnosis of congenital heart disease, Jan., 125.

DÜKER, R., with KIMMIG, J., jt. auth.

DUNN, NAUGHTON (ab.), Operation for fracture of olecranon, Jan., 122.

DYSART, B. R. (ab.), X-ray treatment of infections: review of literature and report of cases of mastoiditis and sinusitis, May, 647.

EDEN, KENNETH C. (ab.), Vascular complications of cervical ribs and first thoracic rib abnormalities, May, 645.

EDMUNDS, LOUIS H. (ab.), Common injuries involving knee joint, May, 650.

EDWARDS, HAROLD G. F. (ab.), Metastatic cancer in lymph nodes of neck, March, 389.

EGGS, F. (ab.), Roentgen therapy of "ulcer disease," Jan., 128.

EHRLICH, DAVID E., with ROBINS, ARTHUR B., jt. auth. EICHHOLTZ, P. C., and ERNST, A. M. (ab.), Osteochondritis deformans juvenilis in dogs, March, 384.

ELLIS, RALPH C. (ab.), Primary sarcoma of lung with brain metastasis, Jan., 126.

ELWARD, JOSEPH F., and DODEK, SAMUEL M., Roentgen therapy in acute periperal mastitis, Feb., 166.

ERNST, A. M., with EICHHOLTZ, P. C., jt. auth.

ESSENBERG, J. M., and KARRASCH, RALPH J., Experimental study of effects of roentgen rays on gonads of sexually mature domestic fowl, March, 358.

ESSER, C. (ab.), Dosimetric studies of "tangent" irradiation, April, 514.

ETTINGER, ALICE, Value of upright position in gall-bladder examinations, April, 481.

EVANS, E. E., X-ray study of effects of industrial gases upon human lung, April, 411.

EVANS, JOHN R., and BOUSLOG, JOHN S., Intractable heartburn of pregnancy, May, 530.

FABER, BÖRGE (ab.), Experimental investigations on importance of protraction and fractionation, May, 644.

FAIRBANK, H. A. T. (ab.), Early diagnosis of congenital dislocation of hip, April, 520.

FARRELL, JOHN T., Jr., com., March, 378.

FARRELL, JOHN T., Jr., with GERSHON-COHEN, J., jt. auth.

FELDMAN, MAURICE, and NEEDLE, NATHAN E., Complete transposition of viscera in siblings, Jan., 97.

FETTER, JOHN S., with WIDMANN, B. P., jt. auth.

FLICK, JOHN B., and BAUER, JOHN T. (ab.), Primary carcinoma of lung, Jan., 117.

FLYNN, RICHARD (ab.), Achalasia of esophagus, Jan., 121.

FOLEY, MAURICE P., SNELL, ALBERT M., and CRAIG, WINCHELL M. (ab.), Anterior pituitary tumor associated with cachexia, hypoglycemia, and duodenal ulcer, June, 759.

FOULDS, L. (ab.), Production of transplantable carcinoma and sarcoma in guinea pigs by injections of thoracotom, March, 384.

FOWLER, EDMUND P., Jr., and SWENSON, PAUL C. (ab.), Petrositis: roentgenologic and pathologic correlation, Feb., 256.

FRANCIS, D. S., with HENSHAW, P. S., jt. auth.

FRANKLIN, R. MAXWELL (ab.), Bronchographic study of apparently healed lung abscesses, June, 737.

FRICKE, ROBERT E., and WILLIAMS, MARVIN M. D., Radium protection: measurements of exposure to gamma rays, May, 560.

FRICKE, ROBERT E., with WILLIAMS, HENRY L., jt. auth.

GALAVOTTI, B., with PALTRINIERI, jt. auth.

GEORGE, ARIAL W., Is practice of roentgenology above criticism, Ed., March, 376.

GERMER, L. H. (ab.), Electron diffraction studies of thin films. I. Structure of very thin films, June, 709.

GERSHON-COHEN, J., and FARRELL, JOHN T., Jr., Roentgenographic prognosis of pulmonary tuberculosis, March, 292.

GESCHICKTER, CHARLES F., and MASERITZ, I. H. (ab.), Skeletal metastasis in cancer, June, 757.

GHORMLEY, RALPH K., and VALLS, JORGE E. (ab.), Metastasis to bone from carcinoma of gastro-intestinal tract, June, 757.

GILES, ROY G. (ab.), Roentgenological consideration of colon, Jan., 120.

GILMOUR, JOHN (ab.), Adolescent deformities of acetabulum: investigation into nature of protrusio acetabuli, May, 646.

Idem (ab.), Relationship of acetabular deformity to spontaneous osteo-arthritis of hip joint, April, 520.

GLASER, MARK ALBERT, and BLAINE, EDWARD S., Fate of cranial defects secondary to fracture and surgery: follow-up study of 150 patients, June, 671.

GLAUNER, R., TEUFEL, S., and DAIGGER, A. (ab.), Results of protracted fractional roentgen therapy of carcinoma of upper respiratory and intestinal tracts from 1930 to 1938, Jan., 119.

GOECKE, H. (ab.), Results in treatment of carcinoma of uterus, Jan., 118.

GOIN, LOWELL S., and HOFFMAN, EUGENE F., New approach to treatment of certain bladder carcinomas, Feb., 205.

GOLDEN, ROSS, and SWENSON, PAUL C., Experiences with compression device in examinations of alimentary tract, April, 457.

GOLOMB, I. M., with HENSHAW, PAUL S., jt. auth.

GOOD, C. ALLEN, Jr., with WEBER, HARRY M., jt. auth.

GOODSON, WILLIAM H., Jr., and WILLIUS, FREDERICK A. (ab.), Coronary thrombosis among persons less than forty years of age: study of thirty cases, Jan., 124.

GRABER-DUVERNAY, JACQUES, with RAVault, PIERRE P., jt. auth.

GRANET, CHARLES M. (ab.), Hereditary deforming chondrodysplasia: report of ten cases in one family, March, 386.

GRAY, HORACE, and NEWELL, ROBERT R., Roentgen therapy of pituitary tumor with regeneration of sella, with growth after age eighteen, Jan., 95.

GRAY, L. H., with CRABTREE, HERBERT G., jt. auth.

GREENBERGER, EDWARD D. (ab.), Perforation of hollow viscera: roentgen aspects, Jan., 128.

GREGORI, A. (ab.), Effect of roentgen rays on bone marrow *in vivo* and *in vitro*, Jan., 113.

GRIESEMER, WELLINGTON D. (ab.), Fractures in region of ankle joint, May, 644.

GROVE, WILLIAM E. (ab.), Transverse fracture of petrous pyramid, April, 516.

GUBERN, RICHARD, and CRAWFORD, J. HAMILTON (ab.), Roentgen kymographic studies of myocardial infarction, May, 650.

GUNSETT, A. (ab.), Report of cases of carcinoma of cervix treated in 1932 and 1933, at Cancer Institute in Strassburg, Jan., 118.

HAILES, W. A. (ab.), Cellulitis of colon: manifestation of diverticulitis, Jan., 120.

HALL, M. R., with SINGLETON, ARTHUR C., jt. auth.

HALLORAN, WALTER (ab.), Diverticula of stomach, Feb., 255.

HARRINGTON, LEO A., with RENDICH, RICHARD A., jt. auth.

HARTUNG, ADOLPH, Pulmonary involvement in lymphoblastomas: special reference to roentgen aspects, March, 311.

Idem (ab.), Roentgen consideration of lesions in and about larynx: diagnostic aspects, June, 755.

HATCHETTE, STAKELY, Multiple diverticula of jejunum, duodenum, and colon, with report of case, May, 577.

HAUSER, HARRY, and WOLPAW, SIDNEY E., Cavitary bronchogenic carcinoma, June, 698.

HECKER, JOHN T. (ab.), Coarctation of aorta: report of case with rupture distal to constriction, Jan., 124.

HEIM de BALSAC, R., with ROUTIER, D., jt. auth.

HENSCHKE, U., and SCHULZ, R. (ab.), Problem of ultraviolet dosimetry, Feb., 259.

HENSHAW, P. S., and FRANCIS, D. S. (ab.), Further studies with seedlings on question of wave length dependence of radiobiological reactions, March, 386.

HENSHAW, PAUL S., and GOLOMB, I. M., Responses of *Drosophila* pupae to x-rays, June, 721.

HIGGINS, C. C., and SHIVELY, F. L., Jr., Wilms' tumor (adenomyosarcoma) of kidney in children: report of case, May, 649.

HIPPS, HERBERT E. (ab.), Fissure formation in articular facets of lumbar spine: operative findings in one case, Jan., 130.

HIPPSLEY, P. L. (ab.), Two cases of non-rotation of mid-gut loop in children, May, 648.

HODGES, PHILIP J., with PENDERGRASS, EUGENE P., jt. auth.

HODGES, FRED JENNER, Differential diagnosis of non-specific interstitial pneumonitis, March, 276.

HOFFMAN, EUGENE F., with GOIN, LOWELL S., jt. auth.

HOLMLBLAD, EDWARD C. (ab.), Improved x-ray technique in studying knee joints, May, 650.

HOLMES, JOSEPH A., with DALAND, ERNEST M., jt. auth.

HONKE, E. M., with PIERSON, L. E., jt. auth.

HORTON, RALPH, with BUTLER, ETHAN F., jt. auth.

HORVATH, J. (ab.), Roentgen therapy of skin and lip cancer, Jan., 117.

HUBENY, MAXIMILIAN J., and DELANO, PERCY J., Retrotelial sarcoma of stomach, March, 366.

HUBER, HERMAN H., and YAFFE, AARON (ab.), Traumatic fracture of pelvis and wrist, complicated by osteitis deformans (Paget's disease), April, 516.

HUDSON, E. B. (ab.), Single large cyst of lung simulating high-pressure pneumothorax, Jan., 127.

HUNT, HOWARD B., Regression of pulmonary metastases from mammary carcinoma following inactivation of ovaries by irradiation: report of two cases, Feb., 235.

HUNT, WESTLEY M. (ab.), Peri-esophageal abscesses: importance of early surgical interference, Jan., 121.

HYMAN, GEOFFREY (ab.), Supine position in emergency treatment of patients with fractured spine, Jan., 130.

INLOW, HERBERT H., Shellac bezoars, May, 618.

INTER-SOCIETY COMMITTEE FOR RADIOLOGY, Points of interest, Feb., 242; Modern hospital and its relation to practice of medicine, M. F. Cahal, March, 370; American College of Radiology announces professional bureau, April, 503; Physician-hospital problem, May, 630; Washington scene, M. F. Cahal, June, 744.

IRWIN, S. T. (ab.), Fractures of neck of femur: review of 33 consecutive cases, Jan., 122.

JACKSON, CHEVALIER L., with MORRISON, LESTER M., jt. auth.

JELLEN, JOSEPH (ab.), Roentgen diagnosis of diseases of ileocecal region of gastro-intestinal tract, Jan., 124.

JENKINSON, E. L., Costs of radiologic examinations (ed.), April, 507.

JENKINSON, E. L., and WASKOW, W. L., Polyps of large bowel, April, 489.

JÉQUIER, E., and ROSSIER, J. (ab.), Two observations of posterior herniation of intervertebral disc, Jan., 130.

JEWELL, F. C., and LOFSTROM, J. E., Osteogenic sarcoma occurring in fragilius ossium: case report, June, 741.

JOCHIMS, J. (ab.), Excretory pyelography in infants, with help of tomograph, May, 648.

JOHNSTON, ALBERT C., and SOSMAN, MERRILL C., Antepartum roentgenographic diagnosis of fetus papyraceous, March, 261.

JÖNSSON, GUNNAR (ab.), Malignant tumors of skeletal muscles, fascia, joint capsules, tendon sheaths, and bursa, Feb., 258.

KARRASCH, RALPH J., with ESSENBERG, J. M., jt. auth.

KAUFMAN, JULIUS, and KOSTER, HARRY, Serial planigraphy (serioscopy) and serial planigraphy: critical analysis, May, 626.

KAUTZKY, A. (ab.), Radiation doses and type of reaction in fractional irradiation of very small skin areas by means of near distance treatment technic, April, 514.

KELLOGG, HOWARD B. (ab.), Chronic peptic ulcers in children, June, 759.

KERLEY, PETER (ab.), Intrathoracic aneurysms, March, 384.

KERSTEN, H., with BRANSON, HERMAN, jt. auth.

KIBLER, FRANCIS E. (ab.), Idiopathic benign hypertrophic pyloric stenosis in adult, Jan., 123.

KIMMIG, J., and DÜKER, R. (ab.), Ultra-violet erythema and its prevention, Feb., 259.

KING, THOMAS (ab.), Closed operation for intracapsular fracture of neck of femur: final results in recent and old cases, April, 516.

KINNEY, LYLE C. (ab.), X-ray treatment of carcinoma of breast, Jan., 116.

KINSELLA, THOMAS J. (ab.), Treatment of chronic suppurative disease of lung, Jan., 127.

KIRKLIN, B. R. (ab.), Cholecystography in fifteenth year, April, 516.

KIRKLIN, B. R., with ADDINGTON, ERCELL A., jt. auth.

KJELLEBERG, SVEN ROLAND (ab.), Combination of sinusitis and non-specific inflammatory affections of lung, Jan., 127.

KLEINBERG, SAMUEL (ab.), Malignant giant-cell tumor of bone: report of case involving tibia, Feb., 259.

KNETSCH, A. (ab.), Roentgen diagnosis of polyposis coli, March, 390.

KNIES, PHILLIP T., Significance of roentgen visibility of horizontal fissure, March, 351.

KÖHLER, A., with BENDER, M., jt. auth.

KOSTER, HARRY, with KAUFMAN, JULIUS, jt. auth.

KRETZCHMAR, NORMAN R., with PECK, WILLIS S., jt. auth.

KUTTNER, ANN G., and REYERSBACH, GERTRUDE (ab.), Value of special radiologic procedures in detecting cardiac enlargement in children with rheumatic heart disease, May, 644.

LAPENNA, M. (ab.), Factor "Lambda" in radiobiology, Jan., 113.

LEGR, GUSTAVE, with RAVault, PIERRE P., jt. auth.

LENZI, M. (ab.), Roentgen-ray fluorescence and biology, Jan., 114.

LEUCUTIA, T., with WITWER, E. R., jt. auth.

LEVENE, GEORGE, LOWMAN, ROBERT M., and WISSING, EGON G., Roentgen diagnosis of strawberry gall bladder, April, 391.

LEVIN, ISAAC, Pathogenesis and radium therapy of mixed tumors of salivary glands: illustrative cases, Jan., 69.

LILJESTRAND, G., LYSHOLM, E., NYLIN, G., and ZACHRIS-SON, C. G. (ab.), Normal heart volume in man, May, 646.

LINCOLN, N. STANLEY, with BUTLER, ETHAN F., jt. auth.

LITTIG, LAWRENCE V. (ab.), Fluoroscopic technic for nailing fractures of neck of femur, Jan., 122.

LOFSTROM, J. E., with JEWELL, F. C., jt. auth.

LOWMAN, ROBERT M., with LEVENE, GEORGE, jt. auth.

LUCAS, CHARLES DeFOREST, Therapeutic and economic indications for radium and supervoltage x-ray machine, Feb., 193.

LUDWIG, DAVID B. (ab.), Cancer of cervix of uterus, Jan., 119.

LYSHOLM, E., with LILJESTRAND, G., jt. auth.

MacCARTY, WILLIAM CARPENTER, Cancer of stomach (Carman Lecture), Jan., 1.

MacCOMB, WILLIAM S. (ab.), Low voltage roentgen therapy in skin cancer, Jan., 117.

MCREADY, J. HOMER, Surgical treatment of cancer of larynx, Feb., 146.

MCCULLOUGH, J. A. L., and SUTHERLAND, CHARLES G., Epiphyseal dysplasia punctularis (stippled epiphyses): report of case not associated with hypothyroidism, Feb., 131.

McGLADE, THOMAS H. (ab.), Fibrolipoma of bronchus: report of case, Feb., 258.

McGREER, JOHN T., with PECK, WILLIS S., jt. auth.

MCNEALY, R. W., with THOMPSON, W. O., jt. auth.

McPEAK, CLARENCE N., Benign duodeno-colic fistula: with report of two cases, March, 343.

MADRAZO, MANUEL F., Brief observation on erythrocyte sedimentation in relation to irradiated malignant tumors, June, 668.

MAITLAND, D. G. (ab.), Punctate epiphyseal dysplasia occurring in two members of same family, March, 387.

MALONE, L. A., Odontomas: case report, May, 573.

MARSHALL, L. R. (ab.), Nasal teeth: report of case, April, 516.

MARTIN, CHARLES L., with MAXFIELD, J. R., jt. auth.

MARTIN, HAYES E., Variations in radiation technic and biological effects in treatment of pharyngeal cancer, Feb., 149.

MARTINET, RENÉ, with MUCCHI, LUDOVICO, jt. auth.

MASERITZ, I. H., with GESCHICKTER, CHARLES F., jt. auth.

MASON, A. Y. (ab.), Diffuse polyposis of large bowel, with case report, March, 390.

MAXFIELD, J. R., and MARTIN, CHARLES L., Evaluation of roentgen therapy in sinus disease, March, 300.

MAYER, A. (ab.), Indications for sterilization by irradiation, April, 518.

MAYNEORD, W. V., with CLARKSON, J. R., jt. auth.

MEANS, J. H. (ab.), Symptomatology of lymphoma: its endless variety, June, 756.

MELAND, ORVILLE N. (ab.), What can one expect from radiation in carcinoma of rectum and anus?, March, 389.

MENVILLE, LEON J., Amédée Granger, Jan., 108.

du MESNIL de ROCHEMONT, RENÉ (ab.), Roentgenologic demonstration of fistula between biliary system and intestinal tract, Jan., 122.

MEYER, K. A., and THOMPSON, W. O., jt. auth.

MEYERDING, HENRY W. (ab.), Fracture of elbow and Volkmann's ischemic contracture, Jan., 122.

MICHELS, MERRILL W., with ROBB, J. MILTON, jt. auth.

MILLWEE, ROBERT H. (ab.), Impressions gained in analyzing 10,000 lumbar spines, Jan., 130.

MØLLER, P. FLEMMING (ab.), Chronic fluorine poisoning, seen from roentgenological standpoint, April, 514.

MONNIER, H., with DEREUX, J., jt. auth.

MOREIRA, F. E. GODOY (ab.), Spina bifida anterior, Feb., 260.

MORRIN, F. J. (ab.), Surgical treatment of lymphatic fields in buccal carcinoma, Jan., 129.

MORRISON, LESTER M., SWALM, WILLIAM A., and JACKSON, CHEVALIER L. (ab.), Frequent non-ulcerous cause of peptic ulcer syndrome, June, 758.

MORRISON, M. C., Distribution of radiation in per vaginal roentgen therapy, April, 451.

MOTIDA, N., with NISHIKAWA, S., jt. auth.

MUCCHI, LUDOVICO, and MARTINET, RENÉ (ab.), Duodenal ulcers located at distal portion of cap, and ulcers of duodenum beyond extrabulbar cap., Jan., 128.

MUMFORD, E. B., with OCHSNER, HAROLD C., jt. auth.

MUSTAKALIO, S. (ab.), X-ray treatment of humero-scapular periarthritis, Jan., 114.

MUTSCHLER, HANS-HEINZ (ab.), Secondary necrosis of head of femur after traumatic dislocation of hip joint in fourteen-year-old patient, Jan., 125.

NAKAIDZUMI, M., and TARUSAWA, S. (ab.), Results of roentgen "convergent" irradiation in treatment of carcinoma of stomach, Feb., 255.

NAKAIDZUMI, M., with NISHIKAWA, S., jt. auth.

NEEDLE, NATHAN E., with FELDMAN, MAURICE, jt. auth.

NEWCOMB, W. D., and WILLIAMS, ROHAN (ab.), Discussion on radiology of tumors of urinary tract, April, 517.

NEWELL, R. R., and BRIGGS, ROWLAND, Cholecystography: optimum voltage: tetrabrom- versus tetraiodophenolphthalein, May, 568.

NEWELL, ROBERT R., with GRAY, HORACE, jt. auth.

NICHOLS, B. H., Future of radiologist (ed.), May, 636.

NISHIKAWA, S., NAKAIDZUMI, M., and MOTIDA, N. (ab.), Absolute determination of r unit in radiological department of University of Tokio, March, 385.

NORTHRUP, DAVID W., with Van LIERE, EDWARD J., jt. auth.

NYLIN, G., with LILJESTRAND, G., jt. auth.

O'BANNON, R. P. (ab.), X-ray examination of larynx and pharynx, June, 755.

O'BRIEN, FREDERICK W. (ab.), Treatment of severe carbuncles by x-ray, May, 647.

Idem (ab.), X-ray treatment of cancer in small communities, Jan., 119.

OCHSNER, HAROLD C., and MUMFORD, E. B., Roentgen therapy for painful conditions of bones and joints, April, 444.

OGDEN, WARNER (ab.), Acute mesenteric arterial thrombosis, May, 645.

OPPENHEIMER, ALBERT, Ileocecal region, May, 545.

OSTRUM, H. W., with WIDMANN, B. P., jt. auth.

OWEN, S. E., and WILLIAMS, A. E., Irradiation and hereditary mammary cancer, May, 541.

PACKARD, CHARLES, Biologic measurement of high voltage radiations, Jan., 17.

PAGANI, A. (ab.), Non-malignant vascular tumors of parotid region and their treatment by means of radium molds, Jan., 130.

**PALMIERI, G. G., and VALENTI, A.** (ab.), Experimental studies and theoretical deductions regarding hypothesis of biologic effect of roentgen and gamma rays on living matter, March, 386.

**PALTRINIERI and GALAVOTTI, B.** (ab.), Comparative studies of effect of radiation after simultaneous irradiation of cutaneous cancer and parent tissue, Jan., 117.

**PARKINSON, JOHN, BEDFORD, D. EVAN, and THOMSON, W. A.** (ab.), Cardiac aneurysm, March, 384.

**PAUL, MILROY** (ab.), Enteric intussusception due to invagination of Meckel's diverticulum, May, 21.

**PAYNE, ANDREW K., with STEVENS, ROLLIN H.** jt. auth.

**PECK, WILLIS S., and McGREER, JOHN T., with KRETZ-SCHMAR, NORMAN R., and BROWN, WILLIS E.** Castration of female by irradiation: results in 334 patients, Feb., 176.

**PELLEGRINI, G.** (ab.), Roentgen irradiation of thyroid in treatment of cardiac decompensation, Jan., 125.

**PENDERGRASS, EUGENE P.** (ab.), Some practical considerations of cholecystography from roentgenologic aspect, March, 390.

**PENDERGRASS, EUGENE P., and HODES, PHILIP J.** Modifying influences of silicosis and silicosis with infection upon healthy chest, April, 400.

**PERUSSIA, F.** (ab.), Indications for plesio roentgen therapy, Feb., 254.

**Idem** (ab.), Technic of post-operative radiation therapy in carcinoma of breast, Jan., 116.

**PESCATORE, JOSEPH A., WOLFFE, JOSEPH B., and DIGLIO, VICTOR A.** (ab.), Tetralogy of Fallot: correlation of clinical, roentgenologic, and postmortem findings, May, 644.

**PETERSON, LEONARD T., with SLOAT, J. I.** jt. auth.

**PFAHLER, GEORGE E.** Roentgen-ray treatment of hyperthyroidism, Jan., 43.

**PHANEUF, LOUIS E., and BELSON, MAURICE O.** (ab.), Biopsy of uterine cervix: end-results of 100 consecutive interventions, Feb., 260.

**PIERSON, L. E., and HONKE, E. M.** (ab.), Hydronephrosis resulting from ureteropelvic obstruction, May, 648.

**PLASENCIA, H. TELLEZ**, First measurements with Spanish standard for absolute determination of international roentgen unit, Jan., 82.

**PONZIO, M.** (ab.), Value and limitations of radium and/or roentgen irradiation in acute inflammatory processes, Jan., 126.

**POPP, WALTER C., and WATKINS, CHARLES H.** Hematologic diagnosis and roentgenologic treatment of myelogenous leukemia, June, 663.

**PORTMANN, U. V.**, Bernard H. Nichols, M.D.: an appreciation, Jan., 104.

**Idem** (ab.), Irradiation in treatment of cancer of breast, March, 388.

**POSSATI, A.** (ab.), Roentgen therapy of leukemia with variable filters, June, 756.

**POTTER, HOLLIS E.** Miniature films in chest surveys, Jan., 62.

**POTTER, HOLLIS E., DOUGLAS, BRUCE H., and BIRKELO, CARL C.** Miniature x-ray chest film, March, 283.

**PRENTISS, ROBERT J., and TUCKER, WARREN W.** (ab.), Cystographic diagnosis of placenta previa, April, 518.

**PRIESTLEY, JAMES T., with BERKMAN, JOHN M.** jt. auth.

**PURCELL, FRANK H.**, with SCHAEFER, ROBERT L., jt. auth.

**RAGHEB** (ab.), Radiological manifestations in bilharziasis, May, 647.

**RANKIN, JOHN O.** (ab.), Adamantinoma of tibia, Feb., 257.

**RAPPAPORT, EMANUEL M., and SCADRON, SAMUEL J.** (ab.), Pelviroadiography and clinical pelvimetry: comparative values in prognosis of outcome of labor, June, 758.

**RAVault, PIERRE P., GRABER-DUVERNAY, JACQUES, and LÉGER, GUSTAVE** (ab.), Painful spinal osteoporosis, Jan., 114.

**RAVENEL, W. JERVEY**, Submucous lipoma of large intestine, with case report, Feb., 217.

**REICHENMILLER, H.** (ab.), Individualized radium therapy of carcinoma of cervix, June, 760.

**REINHARD, M. C., and WARNER, S. G.** Preliminary report of effect of x-rays on tumor of known genetic constitution, April, 438.

**RENDICH, RICHARD A., and HARRINGTON, LEO A.** Why the film size? May, 536.

**REYERSBACH, GERTRUDE, with KUTTNER, ANN G.** jt. auth.

**RIBEIRO CARVALHO, J., and da SILVA LACAZ, CARLOS** (ab.), Bilateral spontaneous pneumothorax following asthmatic emphysema, Feb., 254.

**RICHARDS, OSCAR W.**, Yeast growth: possible test organism for x-radiation, March, 317.

**RIENHOFF, WILLIAM F., Jr., with THOMAS, HENRY M., Jr.** jt. auth.

**RITCHIE, GORTON, with BEATTY, S. R.** jt. auth.

**ROBB, GEORGE P., and STEINBERG, ISRAEL** (ab.), Visualization of chambers of heart, pulmonary circulation, and great blood vessels in man: practical method, April, 518.

**ROBB, J. MILTON, and MICHELS, MERRILL W.** (ab.), Primary squamous-cell carcinoma of uvula: report of two cases, March, 381.

**ROBERTSON, H. E.** (ab.), Ulcerative gastritis and residual lesions, June, 758.

**ROBINS, ARTHUR B., and EHRLICH, DAVID E.** Group x-ray surveys in apparently healthy individuals, May, 595.

**ROBINSON, G. ALLEN**, Radium therapy in polyoid ethmoiditis, April, 449.

**ROOT, JOSEPH C.** (ab.), Importance of roentgen examination in diagnosis of regional ileitis: report of case, May, 648.

**ROSSIER, J., with JEQUIER, E.** jt. auth.

**ROTHBERG, ABRAHAM S.** (ab.), Fractures of carpal navicular: importance of special roentgenography, May, 644.

**ROUTIER, D., and HEIM de BALSAC, R.** (ab.), Tracheal and bronchial modifications during course of certain cardiopathies affecting pulmonary artery, April, 518.

**RUDE, JOE C., with DRESSER, RICHARD**, jt. auth.

**RYAN, ERIC J.** Duodenal ulcer in presence of gall-bladder symptomatology, June, 685.

**SALOTTI, A.** (ab.), Radio-surgical treatment of carcinoma of stomach, March, 389.

**SCADRON, SAMUEL J.**, with RAPPAPORT, EMANUEL M., jt. auth.

**SCHAFFER, ROBERT L., STRICKROOT, FRED L., and PURCELL, FRANK H.** (ab.), Endocrine implication of juvenile chondro-epiphysitis, March, 387.

**SCHATZKI, RICHARD** (ab.), Diagnostic roentgenology, Feb., 254.

**Idem**, Roentgenological differential diagnosis between cancer and diverticulitis of colon, June, 651.

**SCHINDLER, RICHARD**, Principles of new therapy with high speed electrons: preliminary report, Feb., 222.

**SCHLUMBERGER, F. C.** (ab.), Tumors of renal pelvis: report of case, May, 649.

**SCHMITZ, HENRY**, Reaction of carcinomas of cervix to known doses of 800 kv. roentgen rays: five-, four-, and three-year survival rates, Jan., 34.

**SCHÜLLER, ARTHUR** (rev. for pub. by Leo G. Rigler), Diagnosis of "basilar impression," Feb., 214.

**SCHULZE, R.**, with HENSCHKE, U. jt. auth.

**SCHWARTZ, E. ROBERT, and TICE, G. M.** (ab.), Coarctation of aorta: case report, April, 518.

**SCHWYZER, ARNOLD** (ab.), Mesenteric lymphadenitis, Jan., 123.

**Idem** (ab.), Paralaryngeal atheroma, Feb., 257.

**SCOTT, WENDELL G.** (ab.), Roentgenologic diagnosis of thoracic disease other than tuberculosis, Jan., 119.

**SCOTT, WENDELL G.**, with CROSSEN, H. S., jt. auth.

**SEVERIN, ERIC** (ab.), Arthrography in congenital dislocation of hip, Jan., 126.

**SHARPE, CHARLES TILLEY**, Congenital cystic malformation of lungs, formerly known as "vesicular" or "hypertrophic pulmonary emphysema," recently described as "congenital cystic disease of lungs," with report of case, June, 692.

**SHARPE, H. S.** (ab.), Hyperparathyroidism associated with osteitis fibrosa cystica, Jan., 124.

**SHIVELY, F. L., Jr., with HIGGINS, C. C.** jt. auth.

**SICILIANO, L.** (ab.), Roentgen therapy of polycythemia, Jan., 129.

**da SILVA LACAZ, CARLOS**, with RIBEIRO CARVALHO, J. jt. auth.

**SIMMONS, CHANNING C.** (ab.), Tumors of bone, March, 388.

**SIMON, O.** (ab.), Treatment of polycythemia by means of general body exposure with roentgen rays, Jan., 128.

**SINBERG, S. E.** with BURMAN, M. S., jt. auth.

**SINGLETON, ARTHUR C.**, Chronic gastritis volvulus, Jan., 53.

**SINGLETON, ARTHUR C., and HALL, M. R.** (ab.), Carcinoma of sigmoid colon (radiological study), Jan., 120.

**SLOAT, J. I.**, and PETERSON, LEONARD T. (ab.), New device for facilitating taking of roentgenograms when performing extra-articular method of internal fixation in fractures of femoral neck, May, 644.

**SMITH, D. C. WHARTON, and ALEXANDER, ALEXANDER** (ab.), Transitory lung infiltrations associated with eosinophilia (Löffler's syndrome): report of case, June, 757.

**SNELL, ALBERT M.**, with FOLEY, MAURICE P., jt. auth.

**SOKOLOFF, MARTIN BO** (ab.), Lower lobe tuberculosis, May, 589.

**SOSMAN, MERRILL C.**, with JOHNSTON, ALBERT C., jt. auth.

**SPENCER, E. W.**, with WHEELER, DIGBY, jt. auth.

**STEEL, DAVID**, Two years' experience with 400 kv. constant potential deep therapy, Feb., 187.

**STEINBERG, ISRAEL**, with ROBB, GEORGE P., jt. auth.

**STENSTRÖM, BO** (ab.), Roentgen findings in so-called urethral cavernoma, April, 517.

**STEVENS, ROLLIN H.**, and PAYNE, ANDREW K. (ab.), Survey of 293 cases of cancer of cervix uteri, 223 of which were treated from 1916 to 1933, by radiation therapy at Grace Hospital, Detroit, Feb., 259.

**STEWART, DUDLEY M.** (ab.), Simpler method of internal fixation of fractures of hip, April, 520.

**STRANDQVIST, MAGNUS** (ab.), New technic and dosage system for gamma-ray therapy in surface application of radium, Jan., 129.

**Idem** (ab.), Radium treatment of cutaneous cavernous hemangioma, using surface applications of radium tubes in glass capsules, Jan., 129.

**STRICKROOT, FRED L.**, with SCHAEFER, ROBERT L., jt. auth.

**STUCK, WALTER G.**, and TODD, D. A. (ab.), Tumors of ankle, Feb., 257.

**SUTHERLAND, CHARLES G.**, with McCULLOUGH, J. A. L., jt. auth.

SWALM, WILLIAM A., with MORRISON, LESTER M., jt. auth.

SWENSON, PAUL C., with FOWLER, EDMUND P., Jr., jt. auth.

SWENSON, PAUL C., with GOLDEN, ROSS, jt. auth.

TARUSAWA, S., with NAKAIDZUMI, M., jt. auth.

TASHIAN, SOUREN (ab.), Early diagnosis of cancer of gastrointestinal tract and Gruskin malignancy test, Jan., 116.

TAYLOR, LAURISTON S., Economic features of x-ray protection, April, 425.

TAYLOR, RAYMOND G., Presidential address (ed.), Feb., 247.

TAYLOR, S. G., with THOMPSON, W. O., jt. auth.

TEMPINI, GIAMBATTISTA, with COVA, PIER LUIGI, jt. auth.

TEPPERSON, HYMAN I., Treatment of carcinoma of rectum by electrocoagulation and radiation, in selected cases, May, 610.

TEUFEL, S., with GLAUNER, R., jt. auth.

THOMAS, HENRY M., Jr., and RIENHOFF, WILLIAM F., Jr. (ab.), Lipoid-cell pneumonia: adult type, June, 759.

THOMPSON, W. O., TAYLOR, S. G., MCNEALY, R. W., and MEYER, K. A. (ab.), Treatment of severe thyrotoxicosis, April, 517.

THOMSON, W. A. R., with PARKINSON, JOHN, jt. auth.

TICE, G. M., with SCHWARTZ, E. ROBERT, jt. auth.

TODD, D. A., with STUCK, WALTER G., jt. auth.

TOMPKINS, EDMUND, with DOUGLAS, BRUCE H., jt. auth.

TONIOLI, G. (ab.), Effect of roentgen rays on Galliera sarcoma *in vivo* and *in vitro*, Jan., 113.

TROSTLER, I. S., Contributory negligence as it applies to medical malpractice, Jan., 76.

TUCKER, WARREN W., with PRENTISS, ROBERT J., jt. auth.

TYNER, FURMAN H. (ab.), Primary complex of childhood tuberculosis: analysis of x-ray examinations of 857 cases with positive Mantoux reactions, Feb., 256.

VALENTI, A., with PALMIERI, G. G., jt. auth.

VALLS, JORGE E., with GHORMLEY, RALPH K., jt. auth.

Van LIERE, EDWARD J., and NORTHRUP, DAVID W. (ab.), Simple device for changing light intensity in x-ray illuminator, March, 385.

VANONI, E. P. (ab.), One-million volt generator for producing radio-active substances, Jan., 114.

VOGT, A. (ab.), Vitamin C consumption in patients with malignant tumors and with lymphangiomyomatosis, Feb., 258.

WACHOWSKI, T. J. (ab.), Roentgen consideration of lesions in and about larynx, June, 755.

WALKER, MAURICE A., and ALLEN, LEWIS G., Air in knee after trauma, Feb., 239.

WANAMAKER, A. T. (ab.), Mastoiditis in congenitally deformed ears, April, 514.

WANGENSTEEN, OWEN H., with CARLSON, HERBERT A., jt. auth.

WARNER, S. G., with REINHARD, M. C., jt. auth.

WARREN, S. REID, Jr., Roentgenographic unsharpness of shadow of moving object—II, June, 731.

WASKOW, W. L., with JENKINSON, E. L., jt. auth.

WASSERMAN, P. B., with YOUNG, ANNA M., jt. auth.

WATKINS, CHARLES H., with POPP, WALTER C., jt. auth.

WEBER, HARRY M., and GOOD, C. ALLEN, Jr., Invaginated appendiceal stumps roentgenologically simulating polyoid neoplasms, April, 440.

WELIN, SÖLVE (ab.), Aid to roentgen diagnosis of Ewing's sarcomas, Feb., 235.

WESSELY, E. (ab.), Treatment of carcinoma of vallecula, March, 389.

WESTERGAARD, BENEDICT (ab.), Stereoscopic measurements of distances in female pelvis, June, 757.

WHEELER, DIGBY, and SPENCER, E. W., Simplified planigraphy, April, 499.

WHITE, PAUL D., with COMEAU, WILFRID J., jt. auth.

WIDMANN, B. P., OSTRUM, H. W., and FETTER, JOHN S., Tuberculous hilar and mediastinal adenopathy in adults, May, 521.

von WIESER, W. (ab.), Roentgen therapy of multiple scleroses, Feb., 254.

WIGBY, P. E., and COCHRAN, W. H. (ab.), Roentgenogram in intestinal obstruction: its value and its limitations, May, 648.

WILKINSON, F. R. (ab.), Rapid roentgenography in operating room with single solution, Jan., 113.

WILLIAMS, A. E., with OWEN, S. E., jt. auth.

WILLIAMS, HENRY L., and FRICKE, ROBERT E. (ab.), Use of radium in maintaining a patent frontonasal opening in external operations of fronto-ethmoid group of sinuses: preliminary report, June, 760.

WILLIAMS, MARVIN M.D., Milliammeter inaccuracy caused by control cabinet, June, 691.

WILLIAMS, MARVIN M. D., with FRICKE, ROBERT E., jt. auth.

WILLIAMS, ROHAN, with NEWCOMB, W. D., jt. auth.

WILLIUS, FREDERICK A., with GOODSON, WILLIAM H., Jr., jt. auth.

WILSON, J. GORDON (ab.), Air cells in petrous temporal bone in child of thirteen years, Feb., 256.

WILSON, PHILIP D., with De SANTO, DOMINIC A., jt. auth.

WISSING, EGON G., with LEVENE, GEORGE, jt. auth.

WITWER, E. R., and LEUCUTIA, T., Late sequelae of divergent biological skin effects produced by roentgen irradiation with varying voltages, Jan., 24.

WOLF, P. M., with ZIMMER, K. G., jt. auth.

WOLFFE, JOSEPH B., with PESCATORE, JOSEPH A., jt. auth.

WOPPAW, SIDNEY E., with HAUSER, HARRY, jt. auth.

WULFF, HELGE B. (ab.), Radiologic treatment of skeletal metastases in mammary carcinoma, Jan., 116.

YAFFE, AARON, with HUBER, HERMAN H., jt. auth.

YOUNG, ANNA M., APPLEBAUM, H. S., and WASSERMAN, P. B. (ab.), Lipoid pneumonia: report of case, June, 759.

ZACHRISSON, C. G., with LILJESTRAND, G., jt. auth.

ZIFFREN, SIDNEY E., Accidental perivascular injection of thorotrust: report of two cases, Feb., 171.

ZIMMER, K. G., BORN, H. J., and WOLF, P. M. (ab.), Determination of effective dose of combined gamma-ray and neutron preparations, Jan., 129.

ZWICKER, K. A. (ab.), Roentgen diagnosis of biliary passages, Jan., 115.